|  |
| --- |
| **MAKSYM ZHAKUN**Annapolis, MD(443)9944250 🟇 maxzhakun@gmail.com<https://github.com/mzhakun> |

|  |
| --- |
| **Software Engineer** 🟇 **Application Developer** 🟇 **Web Developer***Software Development 🟇 System Design 🟇 Process Improvements*  |

Dynamic, detail-oriented, multilingual Developer highly regarded for designing and developing applications. Strong skills in software and hardware computer and network system administration, and a solid engineering and mathematics background. Analytical Software Engineer with a proven track record of excelling at learning new technologies and successfully applying them to develop clean and well-structured code. Strong presentation and communication skills and works exceptionally well within a team environment and individually. Working experience with Dassault Systems LIMS and Siemens LIMS. Solid understanding of Scrum framework which is allowing to build LIMS systems.

|  |
| --- |
| **Core Competencies** |
| * Application Programming
 | * Solution Architect
 |  |
| * Object-Oriented Technology
 | * Software Analysis and Design
 |  |
| * Software Development Life Cycle
 | * Database Design/Development
 |  |
| * Project Management
 | * Web Design and Development
 |  |
| * Network Administration
 | * Software/Hardware Support
 |  |

|  |
| --- |
| **Professional Experience** |

**Quantify Crypto** **🟇 New York City, NY 🟇 February 2018 – Present**

**Software Engineer**

* Developed and implemented Quantify Crypto (quantifycrypto.net) Application from scratch using Flask Web Framework, Gunicorn, NGINX.
* Used D3, along with JQuery to display the statistics in the form of charts to the user on the dashboard.
* Used WebSocket’s to get data from API’s and pass it to client.
* Implemented excel like functionality in web application using AG Grid and JQuery.
* Used Pandas data frame was used to perform filtering and generating the results.
* Developed and executed various MySQL database queries from Python using Python-MySQL connector and MySQL database package.
* Implemented SQL Alchemy which is a Python library for complete access over SQL.
* Deploy the changes bi weekly to production and respond to queries if any.
* Worked on Python OpenStack APIs and used Numpy for Numerical analysis.
* Used AJAX and JQuery for transmitting JSON data objects between frontend and controllers.
* Install and configuring monitoring scripts for AWS EC2 instances.
* Wrote Python scripts to parse JSON files and load the data in database.
* Complete ownership of web application development and deployment.
* Performed requirement analysis and prepared design documents.

**GeneWhisper 🟇 Rockville, MD 🟇 February 2017 – February 2018**

**Software Engineer**

* Responsible for gathering requirements, system analysis, design, development, testing and deployment.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks. Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Using Machine Learning to Extract data from web page.
* Developed Business Logic using Python on Django and Flask Web Frameworks.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Used Django Database API's to access database objects.
* Used JQuery and Ajax calls for transmitting JSON data objects between frontend and controllers.
Involved in building database Model, APIs and Views utilizing Python, in order to build an interactive web based solution.
* Used Python based GUI components for the front end functionality such as selection criteria,
* Created test harness to enable comprehensive testing utilizing Python.
* Added support for Python Anywhere to host static/media files and the database into Python Anywhere Cloud.
* Involved in front end and utilized Bootstrap for page design.
* Created Data tables utilizing PyQt to display customer and policy information and add, delete, update customer records
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Created Business Logic using Python to create Planning and Tracking functions
* Created UI Screens for initiation and validation.
* Worked on UI using HTML5, CSS3 and Java Scripts.
* Developed multi-threaded standalone app in Python  to view performance.
* Used Pandas library for statistical Analysis.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks.
* Working in team of Architects and Developers to build and deploy Python Django web application to AWS.
* Version control using GITHub.

**U.S. Bulletproofing 🟇 Upper Marlboro, MD 🟇 November 2015 – February 2017**

**Engineer Designer**

* Create 3D computer-aided design models and program complex machining tool paths.
* Prepare dimensional drawings, installation drawings and more complex drawings in 3D.
* Study specifications such as blueprints, sketches, models or descriptions to visualize parts to be manufactured.
* Determine proper machining process such as lathe or milling work, raw material requirements, and cutter types to apply in tool paths.
* Collaborate with engineering teams to design easy-to-machine components and support in-house manufacturing.
* Revise and update existing drawings reflecting design changes.
* Managing data with PLM Siemens Management System

**Solar Energy World 🟇 Elkridge, MD 🟇 March 2015 – November 2015**

**Engineer Designer/Solar Side Accessor**

* Developed electrical drawing sets, generated solar job packets for each project, and filed all permitting paperwork.
* Designed and created solar panel system permits and construction drawings.
* Contacted townships and tracked project statuses, remaining in communication with each township's zoning, building, and construction officials.
* Field verified the design was properly installed and operating correctly at the completion of the project.
* Conducted site assessments for residential solar system, measuring roof area and other relevant details, and documenting measurements.
* Assessed electrical systems and roof conditions, and performed shading analysis.
* Created detailed site drawings, communicated site details to the company’s solar designers and installation teams, and shared reports with a one-day turnaround.

**A E Tech LLC 🟇 Gambrills, MD 🟇 September 2014 – March 2015**

**Repair Technician**

* Performed preventative maintenance, troubleshot or diagnosed service problems, and repaired espresso machines.
* Checked quality of all products, verified calibration of machine and levels, cleaned around machines, etc.
* Received dispatched service calls as assigned, and ensured prompt response based on estimated time of arrival.
* Maintained inventory and maintenance on equipment such as parts, tools, etc.
* Reviewed service orders and service performance with a supervisor.
* Documented all work performed and closed out all activities upon completion.

**TM “Atem” 🟇 Kyiv, Ukraine 🟇 February 2013 – May 2013**

**Field Technician**

* Assembled, installed, tested, and maintained electrical or electronic wiring, equipment, appliances, apparatus, and fixtures, using hand tools and power tools.
* Connected wires to circuit breakers, transformers, or other components with strict attention to detail.
* Engineered automated chemical injection and monitoring systems for water treatment.
* Troubleshot electrical, chemical, and mechanical problems as they arose in the field.
* Handled all maintenance work in the building such as plumbing, wiring (220360V), and running Internet cable.
* Installed flooring, signage, door hardware, panic bars, and air ventilation system, and replaced lighting.

**Kyiv National University of Technologies and Design 🟇 Kyiv, Ukraine**

**Junior Systems Administrator/IT Technician: October 2011 – 2013**

* Maintained university website, ensuring business requirements were met.
* Provided hardware inventory support, and backup and recovery for critical data.
* Supported network and system security, monitoring networks to ensure security and availability to specific users.
* Ensured system design allowed all components to function together, and troubleshot problems reported by users.
* Maintained network facilities in individual machines, such as drivers, and personal computer and printer settings.
* Maintaining Clinical Lab using Siemens LIMS SIMATIC IT Unilab**.**
* Administered network servers, such as file servers and VPN gateways, desktop computers, printers, routers, switches, firewalls, phones, software deployment, security updates, and patches.
* Provided recommendations for future upgrades to ensure maximum system uptime.

**PC Technician: 2009 – 2011**

* Delivered computer hardware troubleshooting and replacement, ensuring timely resolution.
* Provided data backup and retrieval, and virus removal to enhance system reliability and stability.
* Maintained software and applications, and troubleshot any issues.

**Elvik 🟇 Dubrovytsya, Ukraine 🟇 2007 – 2009**

**PC Technician**

* Unpacked and inventoried computer equipment, and transported equipment to on-site installation locations.
* Installed new computer equipment on desktops and made all required connections.
* Ensured computer turned on, the operating system loaded, and the network connection was up.
* Performed computer upgrades where needed to enhance end-user productivity.

|  |
| --- |
| **Projects** |

**Gaussian Elimination Calculator, Kyiv National University of Technologies and Design, Kiev, Ukraine: 2012**

* Calculator with beautiful interface that solves a system of linear equations using Gauss-Jordan elimination.
* Using this calculator, user will receive a detailed step-by-step solution to your problem, which will help to understand the algorithm how to solve system of linear equations by Gauss-Jordan elimination.
* Technology Used: Matlab, Simulink package, MathCad, Microsoft Office (Word, Excel), Microsoft Project.

**Website for Alpha Engineering Technologies, Alpha Engineering Technologies, Annapolis, MD/USA:2016**

* This is beautiful and user-interactive and clean website which is helping company grow.
* Technology Used: HTML5, CSS3, JavaScript, PHP, WordPress, XAMP server, BaseCamp.
* www.alphaengineeringtech.com

**Website For Sustainable Engineering For Energy And Environment, Annapolis, MD/USA:2016**

* This is beautiful website was build with the latest technologies.
* Technology Used: HTML5, CSS3, JavaScript, PHP, WordPress, XAMP server, BaseCamp.
* www.se-three.com

**USAD100-DOS, U.S Bulletproofing, Upper Marlboro MD/USA:2016-2017**

* Automation of design of USAD 1000 – door model certified by department of state, used for US abbacies
* The application allows a user to change parameters of the door (model USAD 1000 - DOS), create drawings of different views and sections and configure particular part features for production
* Technology Used: Autodesk Inventor, AutoCAD, Ilogic, VB.NET

**Social-Network(Clone Project), Annapolis, MD/USA:2017**

* Social Network Clone Project
* Users can create on various topics. They can create posts in the groups. They can also live and join another groups.
* Technology Used: HTML, CSS, JavaScript, jQuery, Bootstrap, Python, Django.

**Website For US bulletproofing, Upper Marlboro, MD/USA:2016**

* This is beautiful website was build with the latest technologies.
* Technology Used: HTML5, CSS3, JavaScript, PHP, WordPress.
* [www.usbulletproofing.com](http://www.usbulletproofing.com)

**Web Customer Tracker**

* This is CRUD web application build using Spring MVC.
* User Can create delete and update customer.
* Technology Used: HTML5, CSS3, JavaScript, Java, JSP, Spring MVC, JPA, Hibernate, MySQL

**Bookstore**

* This is a E-Commerce website which was build using modern Java Full Stack technologies.
* User can:
	+ Sign-up and Login
	+ Manage profile
	+ Manage Product
	+ View Shopping Cart
	+ Create Order and checkout and
	+ View order history
	+ Receive automatic email confirmation

From the architecture perspective, the system is divided into two parts - Bookstore and AdminPortal. Bookstore is the front-end website that customer will be using for submitting orders while AdminPortal is used for administration purpose. Presumably they will be running on two servers. The good side is the two apps are decoupled in some way so that they can be managed separately. The drawback would be that we need to maintain two copies of the code.

* Technology Used: Technology Used: HTML5, CSS3, JavaScript, Java, Thymeleaf, Spring Boot, JPA, Hibernate, MySQL.

**GeneWhisper**

* GeneWhisper is developing a new cloud based artificial intelligent platform for providing direct-to- consumer and direct-to- business for genetic variant interpretation and classification. GeneWhisper will also track the most up-to- date research on genetic and genomic variants in order to help identify potentially clinically actionable variants. In this project, our goal is to automate the data curation of how gene variants can be assessed in relation to their pathogenicity so that clinicians can more efficiently perform the task of identifying the pathogenicity of gene variants then to make actionable decision.
* Technology Used: Technology Used: HTML5, CSS3, JavaScript, Java, Python, C++, C, bcbio-gff, biopython, cython, nose numpy, pandas, shove, sqlalchemy, pysam\* (version 0.7.5), python-memcached, pyvcf.

|  |
| --- |
| **Education** |

**Kyiv National University of Technologies and Design, Kyiv, Ukraine: 2013**

*Bachelor of Science – Automation and Computer Integrated Systems*

* **Relevant Coursework:** Matlab, C++, Circuit Analysis, Mechanism Design and Analysis, Manufacturing Processes, Engineering Materials, Measuring Techniques, Thermodynamics, Strength of Materials and Material Science, Machine Design, Mechanical Vibrations

|  |
| --- |
| **Technical Skills** |
| **Programming Languages/Languages** | Java, JavaScript, Python, C++, HTML, CSS |
| **Operating Systems/Platforms** | DOS, UNIX, Linux, Windows 98/NT/XP/7/8, Mac OS |
| **Technologies** | JSP, Servlets, Thymeleaf |
| **Frameworks** | Spring MVC, Spring Boot, Hibernate, Django, Flask, Bootstrap. |
| **Project Management** | MS Project 2013 |
| **Databases** | MySQL, Oracle, PostgreSQL, MariaDB. |
| **Software** | Microsoft Office (Word, Excel, Power Point), Adobe (Photoshop, Illustrator), Autodesk Inventor, SolidWorks, AutoCAD 3D, CATIA V56, and other software for 3D modeling, Ilogic for Autodesk Inventor, Autodesk Revit, eluCAD, camQuix, Inventor HSM, SAP, ANSYS, Response, Mastan, MATLAB, Mathcad, SIMATIC IT Unilab, Dassault Systèmes LIMP, Mathematica, OriginLab, LabVIEW, Opera, FAM CAM |
| **IDE** | Eclipse/MyEclipse, ASP.NET MVC, Microsoft Visual Studio, IntelliJ IDEA, PyCharm |
| **Revision Control** | Git/Subversion, Jenkins, SCRUM/Kanban |
| **Other** | WordPress, ecommerce platforms, Search Engine Optimization. |

|  |
| --- |
| **Additional Credentials** |
| **Languages** | English – Working proficiency, Russian – Full professional proficiency, Ukrainian – Native proficiency |
| **Honors and Awards** | High School Medal Of Honor |
| **Professional Development** | Complete Java Masterclass Udemy CertificationC# Udemy CertificationComplete Web Developer Course Udemy Certification |
| **Organizations** | IEEE Computer Society Technical Council on Software EngineeringDC Developers, DC Python, The Joy Of ProgrammingAssociation for Computing Machinery |
| **Volunteering Experience** | Red Cross / SPCA / Make a Wish/ Churches / Helping Hands Shelter  |
| **Interests** | Bodybuilding, Flying, Volleyball, Healthy Eating/Learning About Nutrition, Traveling, Guitar |

**Detailed Professional References Available upon Request**

**🟇 🟇 🟇**