**Dennis Zack**

29112 Forest Hill Dr, Farmington Hills, MI 48331 (248) 230-0414 dzackhere@gmail.com

**CORE SKILLS**

C++, Java, Python, Oracle, MySQL, PostgreSQL, TensorFlow, REST, XML, Javascript

Seeking position of a Software Developer with potential for career growth.

Collaborator, effective contributor, and a team player.

**EXPERIENCE**

**Customer Conversion Prediction at Store Upward, MI** Jan 2020 – May 2020

Wayne State University Senior Project

Developed and trained a machine learning prediction software for an online store of a product distribution company. These were based on the big data from historical user and business transactions such as weather, time, demographics, and location to create meaningful predictions for customer actions. The machine learning model was built to continuously learn from new data and revise its predictions. This allows it to make real-time and cost-effective business such as placing targeted advertisement on the customer’s web page.

* Developed several Python applications to utilize the TensorFlow machine learning platform for business application of multiple prediction models.
* Used the Python Flask interface for creating REST web applications which processes customer real-time raw data to display prediction results produced by the trained neural network.
* Wrote queries to PostgreSQL database utilizing data in JSON format to train prediction models in TensorFlow.
* Used a Jupyter development environment for collaboration with project team members.
* Created software package containers using the Docker platform to streamline deployment onto various environments.
* Utilized the Postman software for testing REST requests and responses.
* Wrote detailed documentation containing use case, sequence, and class diagrams to depict the requirements, design, and functionality of the project.

**Hotel Concierge System** May 2019 – Dec 2019

InterTech Communication, LLC

<https://rus-intercom.ru/catalog/products/po-konserzh-/>

Developed a major update for a concierge software to implement access code generation and processing module and addressed video surveillance issues. Functional update and enhancement of old C++ code for operating a hotel management system remotely. Integrated new features such as property management, tenants’ access via centralized video, and basic audio controls through the Qt GUI toolkit.

* Analyzed, debugged, and modified a software component for video output from surveillance cameras to prevent video interruptions.
* Added new functional module to generate tenants’ property access codes.
* Thoroughly and routinely tested existing and new functionality.
* Tools and languages used: Java, Oracle, C++, Visual Studio, Qt GUI toolkit.

**Handicapped Accessible Accommodations Application** Jan 2019 – May 2019

Wayne State University Software Engineering Project

Creation of a web application which aids users in search of locations that are handicap accessible. The application locates any handicap access that exists in the Google Maps database.

* Used Python Flask web interface to display handicap accessible locations through Google Maps API.
* Implemented navigation functionality to provide directions from one location to another.
* Created essential web pages in Python by generating HTML, Javascript, and CSS snippets to dynamically generate user interface.
* Implemented a custom solution to collect and store user reviews in MySQL database and display the most recent and helpful reviews first.
* Using Python, wrote end-to-end functionality for online account creation and sending email notifications to users.

**Field Service Representative, Information Resources Inc.** May 2015 - Present

150 North Clinton Street, Chicago, IL 60661-1416

* Responsible for merchandizing products at six retail and wholesale locations within an assigned territory.
* Collecting and recording inventory data utilizing SKUs.
* Working independently with minimal supervision.

**Assistant Manager, Little Caesars** May 2013 - May 2015

33324 W. 12 Mile Road, Farmington Hills, MI 48334

* Provided ongoing training of existing staff to achieve product quality up to company standards.
* Oversaw the opening and closing activities of the store.
* Recorded daily inventory and ran reports for the general manager.
* Motivated and encouraged staff to provide friendly customer service and make quality products.
* Attended management seminars to further improve management skills.
* Served customers with energy and enthusiasm.

**INTERESTS**

**Detroit Symphony Orchestra - Civic Wind Symphony** Sep 2012 - May 2015

3711 Woodward Ave, Detroit, MI 48201

* Alto Saxophone section leader.

**EDUCATION**

**Bachelor of Science in Computer Science** Aug 2020

Wayne State University, Detroit, MI

**Associate in Arts** May 2020

Oakland Community College, Farmington Hills, MI

**High School Diploma** Jun 2015

North Farmington High School, Farmington Hills, MI

**ADDITIONAL SKILLS**

MS Office (Word, Excel, PowerPoint, etc.), Google (Docs, Slides, Sheets), Trello