Bibhav Bhattarai

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https://github.com/bzb0079 | Santa Clara, USA

Experienced Software Engineer and a **Graduate** with a Summa Cum Laude (**4.0 CGPA**) in Computer Science & Software Engineering from Auburn University, AL, USA. Self-motivated engineer passionate about writing clean code, object-oriented programming (OOP), problem-solving, data structures, and algorithm design. Excellent technical design, analytics, presentation, documentation, specifications, communication, collaboration & teamwork skills. Worked in fast-paced, diverse team settings.

SKILLS

- **Languages & Frameworks:** Java, JavaScript/ES6, Python, C#, C++, XML, Spring Framework, JUnit.
- **Software Development (Web & Mobile):** J2EE, Servlet & JSP, Spring, Spring MVC, Spring Boot, ReactJs, React Native, Node.js, REST APIs, HTML5, CSS, Android, Tomcat, AWS services.
- **Machine Learning, Cloud & CI/CD:** Scikit-learn, TensorFlow, Pytorch, AWS, Google Cloud, Travis CI, Docker.
- **Databases, Search & Version Control:** Relational databases, SQL server, SQL, Postgres, MySQL, Firebase (NoSQL), Git, GitLab, SVN, Apache Solr.
- **Others:** Data Analysis, Linux, Agile Development, Scrum, Kanban, JIRA, Bash, Ansible, JSON, AJAX, jQuery, Maven, Gradle, Unity, AR/VR, Microservices, Design patterns, DevOps, Testing, Debugging.

PROFESSIONAL EXPERIENCE

Software Engineer (GRA), Auburn University, USA   Feb 2019 - Apr 2021

- Developed RESTful web services with Spring framework, Java EE / J2EE, Spring MVC, React, JavaScript, CMS, HTML, CSS together with Apache Solr as a data persistence layer.
- Enhanced performance by 10-fold in legacy system through continuous development and integration of features while also improved search performance and SEO.
- Architected & developed a multi-threaded, asynchronous native mobile app for Google Play using Java and Firebase (NoSQL). Optimized the app periodically to support its approximately 70 DAU.

Software Engineer, Umbrella Solutions PVT LTD, Nepal   Oct 2016 – Dec 2018

- Built web applications using Java EE / J2EE, Java, Servlet JSP, JavaScript, HTML and SQL in a collaborative environment employing Agile Methodologies throughout the software development life cycle (SDLC).
- Led the migration of Servlet-based backend system to Spring Framework, resulting in 60% improvement in performance and significantly enhancing security and scalability. Ultimately, enhancing customer satisfaction by 15%.
- Steered the JIRA implementation in the company for issue tracking and project management for SCRUM Teams to maintain an above average sprint velocity which resulted in 90% increase in project controlling transparency.

Engineer-Technology, Virtusa Technologies India Private Limited, India   Aug 2015 – Jun 2016

- Designed and implemented an integrated N-tier web application using C#, MVC 5, ASP.NET, ADO.NET (Data Reader, Dataset, and Data Adapter), JavaScript and SQL server.

PROJECTS

IBM Watson Assistant & Alexa Skills

- Implemented Amazon lambda functions and IBM Cloud functions to create Alexa Skills accessible to tens of millions of customers.

Sentiment Analysis for Autonomous Vehicle

- Utilized AI, including supervised machine learning techniques such as NaiveBayes and SVM in Python, as well as the Twitter API, to create a text classification model that correctly classified thousands of tweets into sentiments with a 92 percent accuracy.

Sun path AR App

- Built an AR app using React Native, Three.js to eliminate the need for a traditional, time-consuming method to obtain solar azimuth and altitude. It enabled users to readily see the Sun's path with 98% accuracy.

Drinking Water AR App

- Created a scalable Java application using Android Studio, ARCore, Firebase & AWS S3 to locate 20 water stations in AU by pointing the device camera towards point of interests.

Education

Master's degree in Computer Science & Software Engineering, Auburn University, USA   Jan 2019 – Apr 2021

Courses: Cloud Computing, Artificial Intelligence, Advanced Operating Systems, Advanced Algorithms, Advanced Computer Architecture, Web Application Development, Software Quality Assurance, User Interface Design.

Bachelor's degree in Electronics and Communications Engineering, NIT, Warangal, India   Aug 2010 – Jul 2015