Yellenki Ritheesh Baradwaj

Software Development Engineer

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Education

• **VNR Vignana Jyothi Institute of Engineering and Technology** — Jun 2016 – Sep 2020, Hyderabad, India, GPA: 9.62

Bachelors of Technology, Major in Electronics and Communication Engineering

Work Experience

DENSO Corporation — Oct 2020 - Present
Software Development Engineer — Aichi, Japan

- Worked on all development phases starting with a functional and detailed design of the conceptual model to implementation, debugging, and maintenance of the software components for Intelligent Mobility.
- Contributed to the feature development of CORE, LOG functionalities for runtime environment of Vehicle Computer.
- Implemented fundamental and asynchronous feature support with Future, Promise for CORE component following AUTOSAR standards.
- Improved the quality of the product to achieve ASIL B targets with software analysis, unit testing (>90%), binary testing, and component testing.
- Contributed to the development of a python test framework package to automate the execution of the tests using Paramiko, Pytest framework on QNX target.
- Identified/Fixed critical bugs to unblock the product release by the end of every Program Increment.
- Analyzed business and technical requirements, and collaborated with PM, SM, and team members about new features and their implementation.

Prymatica — Jul 2020 – Aug 2020
Python Developer (Contract) — Tel Aviv, Israel

- Developed a web server using Flask on Google Cloud Platform to track emails sent to customers.
- Implemented client-side application to retrieve the collected data from the server and MYSQL database.
- Migrated the entire framework from functional programming to following object-oriented structure and improved the email sending framework.

NCR Corporation — Jan 2020 – Jun 2020
Software Intern — Hyderabad, India

- Worked in DevOps team: Studied the concepts of Continuous Integration/Continuous Delivery, and other DevOps tools by developing various applications.
- Created a CI/CD pipeline for a Machine Learning Application with both Jenkins and GitHub Actions.
- Published a GitHub Action on GitHub Marketplace: Automated the workflow of training and testing the ML model, integration with Flask, and deploying the application on Google Application Engine.

Skills

- **Languages**: C, C++, Python, Java
- **Testing Frameworks**: Google Test, Pytest
- **Database and Web Technologies**: SQL, HTML, CSS
- **Platforms**: Linux, QNX
- Willingness to Learn, Strategy & Execution, Collaboration, and Communication, Team Building Skills

Licenses & Certifications

- Certified SAFe® 5 Practitioner
- Infosys Certified Python Programmer

Projects

DocMan - Snoring Analysis   github.com/RitheeshBaradwaj/DocMan-SnoringAnalysis
Software Developer   Feb 2019 - Jan 2020

- Technologies used: Python, Signal Processing, Machine Learning, React JS
- Conducted a survey which showed that people who snore are unaware of its consequences if left undiagnosed and untreated.
- Developed an application called DocMan that enables the user to determine the stage of Obstructive Sleep Apnea by analyzing the recorded snoring signal using Signal Processing, Machine Learning.

Meme - Generator   github.com/developers-cosmos/Meme-Generator
Python Developer   Apr 2020 - May 2020

- Technologies used: Python, HTML, CSS, Flask, Cloud Engine, Chef.
- Developed an interactive web framework to recognize the facial expression, generate a random meme on the given image, and render the same back to the user.

Awards & Achievements

- Received best innovation awards in hackathons/project competitions conducted by BITS Pilani, DENSO, VNR VJIET, and CIE MLRIT.
- Finalists of Deloitte TechnoUtsav 2.0 event in 2019 for DocMan – Snoring Analysis.
- Received Academic Excellence Award for two consecutive years in B. Tech

Other Activities

- Contributed my learnings related to DevOps, Machine Learning, and Artificial Intelligence by writing and publishing blogs on Medium for Towards Data Science, Towards AI, and FAUN publications.
- Started Developer Cosmos an open-source community on GitHub where students are encouraged to communicate their ideas, projects, and learnings, be revolutionary or simple.