

Swaathi Reena Velavan

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EDUCATION

Master of Science, Computer Science - GPA 3.83 May 2023
University of Florida, Gainesville
Coursework: Data Structures, Algorithms, Machine Learning, Mobile Computing, CodePath Advanced Software Engineering

Bachelor of Technology, Information Technology May 2020
Anna University, Chennai, India

WORK EXPERIENCE

Software Engineer Co-op | Wayfair Aug 2022 – Present

- Collaborate cross-functionally with product development team to scale and enhance business operations using FastAPI in Python and Kafka

Software Engineer Intern | Tata Consultancy Services May 2022 – Aug 2022

- Increased user experience and usability using Angular framework to develop, manage and support web applications

Web Development Intern | University of Florida Information Technology Jan 2022 – May 2022

- Created a gamified webpage to help solidify security principles for over 90,000 constituents using CSS, JavaScript

Software Engineer | Coelho Consulting, India Jul 2020 – May 2021

- Developed 'No-Code' systems to accelerate deployment time by 85% using jQuery, C#, and AJAX
- Automated dashboard to reduce manual efforts from 2 weeks to 2 days
- Analyzed business requirements to generate reports increasing customer engagement by 30%
- Enhanced UI/UX and extended functionality by implementing a listing grid screen reusable component
- Modernized dashboards by assessing clients' needs for Philadelphia rehabilitation fund management (over \$1M)

TECHNICAL SKILLS

Programming Languages: Java, C, C++, Python, F#, C#, SQL, T-SQL, NoSQL
Web Technologies: HTML, CSS, React, jQuery, JavaScript, Node.js, Express.js, Angular, Go, JSON, AJAX
Frameworks/Databases: .NET, Firebase, Oracle, MySQL, REST
Other: AWS, GCP, Docker, Kubernetes, Jenkins, JDBC, Git, Object-Oriented Design, Agile Project Management

PROJECTS

Movie Rating IMDB Clone

- Deployed a Web Application using Agile methodologies that has features to add friends, provide ratings, and search movies with unit test coverage of over 80%

Smart Safe Application

- Engineered an application that sends live conversation transcripts to trusted contacts and a secret keyword that calls authorities in a 36-hour hackathon (Firebase Realtime database, Express.js, Google Cloud and Twilio API)

Distributed Twitter Clone

- Established multithreaded, client server emulation by utilizing Akka actors, F# and scaled to 20,000 users

Road Safety Data Analysis System

- Analyzed over 100,000 accident records using the Oracle Database System to benefit vehicle insurance companies
- Devised an application using the .NET (Web services) and Angular frameworks to visualize insightful trends

Distributed Bitcoin Mining

- Implemented the intensive task of mining a bitcoin with up to 7 leading zeros utilizing Akka model, F#

IoT based Water Monitor Application

- Administered an Android application that sends SMS alerts (Twilio API, ThingSpeak IoT platform) when consumption exceeds threshold with a measurement accuracy of 89%

Alternative to Traditional Credential Based Authentication

- Devised a robust, anti-phishing authentication-framework to protect credentials under a layer of biometrics
- Ideated Authentication as a service solution for session management to benefit developers/users
- Finalist in the 24-hour National Level Smart India Hackathon, shortlisted out of 12,000 entries

LEADERSHIP EXPERIENCE

Web Master | University of Florida - Women in Computer Science and Engineering

- Design website and Progressive Web App (PWA) to cater 600+ members using Google Cloud, Ionic and Angular
- Collaborate with 12 officers of the executive board to host industry presentations and mentor club members