

APEKSHA AGARADALLI NATRAJ

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EDUCATION

University of Utah

Master of Science, Computer Science | CGPA: 3.7

Visvesvaraya Technological University

Bachelor of Engineering, Computer Science | CGPA: 8.78

Salt Lake City, UT

August 2023 - May 2025

Karnataka, India

August 2018 - July 2022

SKILLS

Programming Languages: Python, C, Java, JavaScript

Web Development: HTML, CSS, Flask, Django

Database Technologies/Big Data: SQL, Firebase, Cassandra, Pyspark, MongoDB

Operating Systems: Windows, Linux, macOS, Android, iOS

Software Tools: Git, Overleaf, MS Word, PowerPoint, Excel, Visual Studio

Frameworks and Libraries: TensorFlow, Scikit-learn, Pandas, NumPy, Bootstrap

Certification: Microsoft Azure Fundamentals

EXPERIENCE

Associate Software Engineer

Infogain India Private Limited

Karnataka, India

August 2022 - July 2023

- Engineered a Responsive Web Design User Management website using CSS, HTML, and JavaScript, integrated with a full-stack microservices-based backend (Java, Spring Boot, Docker) and CI/CD pipelines, reducing deployment time by 25%.
- Developed and deployed RESTful Web APIs and large-scale microservices applications, improving performance by 15% and ensuring scalability.
- Revamped features of the Costco Travel Investment Project using Java, Spring, and JavaScript, enabling Costco members to seamlessly book hotels, flights, and cruises, increasing engagement by 20%.
- Partnered with cross-functional teams to diagnose and resolve production issues, ensuring web security and maintaining 99% system uptime and delivering a seamless experience.
- Orchestrated version control processes with in Agile SCRUM teams, decreasing development time and merge conflicts by 30%, and elevating team productivity.
- Optimized backend integration with the front end, reducing data processing time by 15% and ensuring accurate real-time UI updates to enhance user satisfaction.
- Resolved critical defects and improving code quality, leading to a 15% reduction in bug reports.

Software Engineer Intern

Ekathva Innovations Private Limited

Karnataka, India

July 2021 - September 2021

- Formulated and implemented an online elective subject selection system using Python Flask Micro Web Framework, simplifying the course selection process for students and administrators.
- Spearheaded the integration of Cassandra Database with Python Flask to enable real-time data retrieval, improving system responsiveness by 30%.
- Devised and customized responsive web pages using HTML, CSS and JavaScript, improving cross-platform compatibility and boosting usability by 40%.
- Facilitated seamless functionality through testing and debugging, achieving a 25% reduction in system downtime.

PROJECTS

Cryptocurrency and Stock Price Prediction using Machine Learning

October 2021 - July 2022

- Designed and implemented a machine learning-powered platform using Python Flask, MySQL, and XAMPP server, achieving an 85% prediction accuracy for stock and cryptocurrency prices using LSTM and Linear Regression algorithms.
- Crafted an interactive web dashboard that aggregated real-time market trends and historical data for small-scale investors, enhancing decision-making capabilities by providing insights from over 1,000 market events

Payroll Management System

February 2023 - May 2023

- Created a web interface using HTML, CSS, PHP, and XAMPP Server to automate payroll processes, improving payment accuracy by 25% and reducing processing time by 30%.
- Deployed a cost-effective solution for managing salaries, bonuses, deductions, and taxes, eliminating the need for professional services.

Old Bailey Decisions Prediction Project

January 2024 -April 2024

- Constructed machine learning models using Python, Scikit-learn, and classifiers like Perceptron, SVM, and Voting Classifier to predict judicial decisions with up to 73.62% accuracy.
- Enhanced model performance through data preprocessing, hyperparameter tuning, and cross-validation, resulting in a 15-20% improvement across datasets.