Nrupaja Vartak

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SKILLS

Languages: Java, Python (Scikit-learn, Pandas, Numpy), Swift, C/C++, Dart, SQL, JavaScript, ReactJS, and AngularJS
Tools: Amazon Web Services (AWS), Flutter, Flask, Microsoft Power Platform, GIT, Figma, Firebase, Jupyter, Tableau

EDUCATION

California State University - Monterey Bay   **May 2023**
Bachelor of Science in Computer Science | GPA: 3.89 (magna cum laude)
Coursework: Design and Analysis of Algorithms, iOS Development, Software Engineering, Database Management, Introduction to Data Science, Operating Systems, Computer Architecture, Network and Security, Graphics Programming.

WORK EXPERIENCE

Software Developer, ElderAid | Cupertino, CA   **Oct 2023 - Present**

- Elevated the user experience by implementing a redesigned interface through Figma. Developed a cross-platform application on Flutter using Dart, seamlessly integrated with AWS Amplify to establish a backend infrastructure.
- Implemented advanced functionality and custom widgets by strategically applying the BLOC design pattern for optimized code structure and maintainability. Ensured integration with Java REST APIs using AWS Lambda to increase user engagement and application performance.
- Automated application testing by developing Python scripts and test cases, enhancing app reliability and performance.

User Experience and Testing Intern, Swirepay | Santa Clara, CA   **Oct 2023 - Present**
- Improved overall software efficiency and minimized post-launch issues through rigorous testing encompassing regression, functional, and usability aspects, ensuring high product quality and functionality pre-deployment.
- Led automation initiatives by crafting Java APIs to streamline test case execution and significantly minimize manual efforts. Demonstrated proficiency in analyzing and resolving reported support issues, using SQL queries to extract essential data for efficient issue resolution.

Software Developer (Intern), dKomplex IT | Seaside, CA   **Jan 2023 - May 2023**

- Enhanced staff efficiency and productivity by developing an automated virtual engineer using Microsoft Canvas Apps and Azure OpenAI API integration. Designed an intuitive interface with Java on Power Apps and implemented API response retrieval through Power Automate flows, integrating with Spring Boot REST API for fast and precise information retrieval.
- Collaborated within Agile cross-functional teams, actively engaged in sprint planning and retrospectives. Contributed to comprehensive user guides, documentation, and rigorous testing to guarantee app functionality.

PROJECTS

US Crime Data Analysis and Prediction   **Dec 2022**

- Applied machine learning algorithms in Python, using Pandas, Numpy and Scikit-learn, to predict homicide weapons based on the offender's age, location, and relationship to the victim.
- Uncovered insights into weapon prevalence, victim-offender relationships, and age demographics of crimes committed in the US and contributed to a better understanding of crime patterns and factors influencing weapon choice.

Pesticide Tracking App, PestTech   **Oct 2022 - Dec 2022**

- Developed an iOS application using Swift to help farmers and agricultural professionals manage pesticide usage on their crops. Integrated REST APIs to retrieve and display weather forecasts and complete history.
- Built a reporting system using the Parse database to generate reports for regulatory compliance and data analysis. Utilized Test Driven Development to ensure reliability by implementing thorough testing.