

AKSHITA AKUMALLA

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EDUCATION

University of California, Irvine

(Fall 2021- Expected December 2024)

B.S Computer Science | Current GPA: 3.7

Coursework: Data Structures & Algorithms, Computer Organization, System Design, Computational Statistics, Artificial Intelligence and Machine Learning, OOPS, Operating Systems, Data Management, Software Engineering, User Interaction Software

SKILLS

Languages: C, C++, Java, Python (NumPy, PyTest), HTML/CSS, JavaScript, MySQL, MIPS Assembly Language

Operating Systems: macOS, Windows, Unix/Linux

Tools/Technologies: REST APIs, CI/CD Pipelines, Gitlab, Appium, Docker, AWS, Android Studio, Jama

EXPERIENCE

- **Software Test Integration Intern | Panasonic Avionics**

(June 2024 - present)

- Supported automation initiative by developing test scripts for the crew terminal and seat interactive using PyTest and Appium, reducing need for manual testing
- Developed and deployed a Docker image with shell script to execute the test environment, improving testing efficiency and consistency across multiple programs.
- Manually tested on customer racks involving Hardware and Software Integration using Jama Test Cycles and Customer Required Documents
- Set up Git Runners for CI/CD jobs

- **Coding Instructor | Coding Minds Academy**

(March 2023 – June 2024)

- Taught Java, Python, HTML/CSS, C++, and introductory Computer Science concepts K through 12 students.
- Lead classes on OOPS, Data Structures (C++, Java), and Web Development Project Classes (CSS, JavaScript)

PROJECTS

- **Fabflix Movie Web Application | Java, HTML/CSS, JavaScript, Docker, AWS**

(Spring 2024)

- Enabled users to browse, search, and purchase from a database of thousands of movies
- Built the application from scratch using Tomcat Server, a MySQL movie database, and set up an AWS EC2 instance
- Developed Java backend for data extracting using JDBC and created RESTful APIs
- Designed a user-friendly front-end with JavaScript, AJAX, HTML/CSS, and jQuery, supporting dynamic content
- Implemented advanced features such as bot detection with reCAPTCHA, full-text search/autocomplete with caching, cart checkout sessions, and protection against MySQL injection attacks using prepared statements.
- Deployed the application in a Docker container.

- **Run Keeper Tweet Report | TypeScript, JavaScript, HTML/CSS**

(Winter 2024)

- Generated a comprehensive weekly report on RunKeeper app Tweets by analyzing their content and visualizing trends through Vega-lite graphs on a webpage
- Engineered a user-friendly search box, enabling efficient browsing of Tweets, enhancing accessibility and usability

- **Sudoku AI | Python**

(Winter 2023)

- Developed an AI program that solves Sudoku boards with Constraint Propagation and AI heuristics
 - Utilizes optimal backtracking and alpha-beta pruning for a faster solution
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