

# AKSHITA AKUMALLA

Irvine, CA

Email: akshita.akumalla@gmail.com

Phone Number: (949)-899-7675

LinkedIn: @akshita-akumalla

## EDUCATION

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**University of California, Irvine**

*(Fall 2021- Expected December 2024)*

B.S Computer Science | Current GPA: 3.677

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

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**Languages:** C, C++, Java, Python (NumPy, PyTest), Prolog, Lisp, 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

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- **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

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- **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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