

AKSHITA AKUMALLA

Email: akshita.akumalla@gmail.com

Phone Number: (949)-899-7675

LinkedIn: @akshita-akumalla

EDUCATION

University of California, Irvine

(Fall 2021- Expected March 2025)

B.S Computer Science | Current GPA: 3.6

Current/Completed coursework: Data Structures & Algorithms, Computer Organization, APIs, Artificial Intelligence, Machine Learning, OOPS, Principles in System Design, Operating Systems, Data Management, Software Engineering, User Interaction Software

Future Coursework: Projects in Databases and Web Applications (AWS, JDBC, HTTPS, XML), Neural Networks & Deep Learning, Algorithms for Probabilistic and Deterministic Graph Models

SKILLS

Programming Languages: C, C++, Java, Python, HTML, CSS/SASS, JavaScript, TypeScript, MySQL, MIPS Assembly Language

Web Applications & Frameworks: Angular, Node.js

Operating Systems: Mac OS, Windows, Unix/Linux

Software: Eclipse, Visual Studio, IDLE (Python Shell Script), Git

Other: Requirements Documentation and Analysis

EXPERIENCE

- **Coding Minds Academy | Coding Instructor** (March 2023 – present)
 - Teach Java, Python, HTML/CSS, C++, and Computer Science concepts for grades K through 12 students.
 - Lead classes in OOPS and Data Structures in C++ and Java and Web Development Project Classes in CSS and JavaScript

PROJECTS

- **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
 - Utilized optimal backtracking and alpha-beta pruning for a faster solution
- **Geo-coding Air Quality Index** | Python (Fall 2021)
 - Built a shell-based command operator that determines the Air-Quality index of a location within given range and threshold
 - Utilized Web APIs (Nominatim API & Purple Air) and Network Protocols to perform forward and reverse geo-coding

ACTIVITIES

- **ICS Student Council | Corporate Committee** (Fall 2022-)
 - Create sponsorship proposals, organize fundraisers, and work with companies for campus events
 - **UCI Anthology – Yearbook | Writing Intern** (Fall 2023-)
 - Write stories and interview staff and students on campus events and university life for UCI's Yearbook
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