Maxwell Wu

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SUMMARY

Recent Computer Science graduate with strong fundamentals in algorithms, operating systems, networking, databases, and software engineering. Seeking an entry-level software engineering or IT role. Known for disciplined problem-solving, clean code, and rapid learning.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL
Core CS: Data Structures & Algorithms, OOP, Discrete Math, Algorithm Analysis
Systems: Operating Systems, Computer Networks, Computer Architecture, Security Fundamentals
Tools: Git, Linux, VS Code, Unit Testing (coursework)
Databases: Relational Modeling, Normalization, Indexing (coursework)

PROJECTS

Task Manager Web App | Python, Flask, SQLAlchemy, SQLite/PostgreSQL
- Implemented user authentication, task CRUD, due dates, and status tracking with a REST-style backend.
- Designed a relational schema and wrote queries for filtering and sorting tasks; added input validation and error handling.
- Packaged as a deployable app with environment-based configuration (local SQLite and optional PostgreSQL).

Pathfinding Algorithm Visualizer | Python, Pygame
- Built an interactive grid UI to visualize A*, Dijkstra, BFS, and DFS with step-by-step animation.
- Measured and displayed visited nodes and path length; added controls for obstacles, start/end, and reset.

PCAP Traffic Analyzer (Offline) | Python, Scapy
- Parsed PCAP files to summarize flows (src/dst, protocol, ports) and basic statistics for troubleshooting and learning.
- Generated readable console reports and optional CSV export for further analysis.

EDUCATION

California State University, East Bay — B.S. Computer Science, 2023
GPA: 3.58/4.00 • Dean's List (multiple semesters)
Relevant Coursework: Data Structures & Algorithms, Analysis of Algorithms, Software Engineering, Operating Systems, Computer Networks, Database Architecture, Artificial Intelligence, Security & Information Assurance, Discrete Structures, Computer Architecture, Programming Language Concepts, Automata & Computation.

ADDITIONAL

Open to relocation • U.S. work authorization: (fill in) • Portfolio: (add URL)