Austin Wang
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WORK EXPERIENCE

Amazon   June 2022 - September 2022
Software Engineering Intern   *Seattle, WA*
- Developed dynamic forms-based UI using Typescript for internal configuration of new seller fees and events into a hierarchical NoSQL-like database impacting 100+ fee configurations.
- Reduced time spent on database changes by ~50% with switch from manual code changes to a non-technical, user friendly website developed in the Angular Framework.
- Provided backend CRUD support for 9 interrelated database tables and sequenced full user change workflows using AWS Step function and Java.

Intel   June 2017 - August 2017
Software Engineering Intern   *Hillsboro, OR*
- Conducted performance tests comparing CPython/PyPy interpreters using the Python Benchmark Suite on Intel server systems and found a ~20% runtime decrease with PyPy.
- Analyzed/profiled performance behavior of Python software stack including Numpy (an AI foundational library) and Nengo (a tool simulating large-scale functional brain models)
- Developed a web server automation tool with Apache, Django and Python/Bash for checking lab system conditions including resource availability for a team of 10+.

PROJECTS

Ancient - 2D Game (Available at: https://tinyurl.com/Ancient2D)
- Designed HD game assets and developed/optimized a top-down 2D Unity Game from scratch using Midjourney prompt engineering and utilizing OOP principles in C# to create a complex live-action combination-based combat system.

Plan-It - Calendar-based Social Media App
- Built full end-to-end calendar-based social media web application with React.js frontend and Flask/Sqlite backend allowing users to subscribe to and create content in the form of scheduled Calendar Events/Guides that one can apply to their own personal Calendar and discover new content via our Graph Neural Network.

Sushi Bar Simulator
- Crafted interactive 3D Sushi Bar environment using the TinyGraphics CAD framework.

Lyricloud (Available at: Lyricloud.netlify.app)
- Developed fullstack end-to-end web application with React.js (frontend) and Node.js (backend) that utilizes ReactWordCloud and Genius API to search for and generate word clouds using music lyrics.

Movie/Actor Database System
- Created a movie database system web application which users could query for movie/actor data and which could handle data entries such as written reviews, ratings and comments.
- Assembled website with PHP/HTML running inside an Apache web server and with the data managed using MariaDB.

Delivery Navigation in L.A.
- Developed a turn-by-turn navigation/delivery application with the A* search algorithm and optimized with Simulated Annealing (ML algorithm).

EDUCATION

University of California - Los Angeles   2019 - 2023
B.S. in Computer Science   *Los Angeles, CA*
- Magna Cum Laude | GPA: 3.94
- UCLA Wushu Board Member | Upsilon Pi Epsilon CS Honors Society Member

SKILLS

- **Languages:** Javascript/Typescript, Python, C, C++, Java, C#, HTML/CSS, Bash, Lisp, Scheme, Ocaml, PHP
- **Technologies:** React, Node, Angular, SQL, Unity, Flask, Git, TinyGraphics, MongoDB, Apache, Cprofile, Linux/Unix, Django, Docker, Matplotlib, Scikit-Learn
- **Skills**: Frontend, Backend, Fullstack, Adaptivity, Debugging, Profiling, Project Design, Optimization, Data Science, Artificial Intelligence, UX, Product Development, Product Design, Computer Architecture, Unit Testing, Troubleshooting