Hunter Macias

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GitHub | Linkedin | Portfolio

Work Experience

Stocker — Seattle, WA

Costco Wholesale — *Oct 2023 – Present*

- Utilized AS400 system for product look-up, inventory management, and printing signs to enhance store operations and product information accuracy.
- Managed product logistics including using a box knife, operating manual pallet jacks to move merchandise, and coordinating with forklift drivers for efficient stocking.
- Assembled display models, modifying displays to ensure member safety, and maintaining compliance with safety protocols.
- Operated warehouse equipment such as cardboard balers and shrink wrap compactors, and maintained cleanliness and organization of the sales floor.
- Provided exemplary member service, assisting with product loading and information, ensuring a high-quality shopping experience.

Coding Coach — San Francisco, CA

The Coder School — *May 2020 – Present*

- Deliver personalized coding instruction to a diverse student base across Python, HTML, CSS, JavaScript, and React.js, emphasizing one-on-one engagement to cater to individual learning styles and objectives.
- Design and implement adaptive lesson plans that respond to the unique skill levels and interests of each student, promoting a customized learning experience that fosters both technical proficiency and creative exploration.
- Develop and employ original teaching materials and strategies in the absence of a formal curriculum, significantly enhancing student engagement and ensuring the relevance of lessons to current technological trends and best practices.

Software Developer Intern — San Francisco, CA

Candor — *Sep 2021 – Jan 2022*

Collaborated with a specialized team to develop a comprehensive financial wealth management platform:

- Engineered and launched backend real-time trading APIs using NodeJS, TypeScript, and AWS Lambda, enhancing trading operations.
- Designed and implemented responsive frontend dashboards leveraging Next.js, TypeScript, React, and Vercel, improving user interface and experience.
- Coordinated with design and UX teams to develop engaging marketing pages and user dashboards, ensuring cohesive visual and functional elements.

Software Developer — New York, NY

Leadbird — *Jan 2021 – Jun 2021*

- Led the development of a sophisticated, React-based web dashboard for executive analysis of LinkedIn lead generation activities.
- Pioneered a Python-based web scraping solution integrated with Google Sheets, providing a comprehensive repository of business insights.
- Designed an advanced interactive dashboard using innovative data representation techniques for data-driven decision-making.
- Executed end-to-end tests using Selenium and Protractor to ensure dashboard functionality and reliability.
- Enhanced client engagement and satisfaction by transforming complex data into a user-friendly interface.
- Contributed to the efficiency of lead management by offering real-time insights into connection rates and message response rates.

Skills

Programming Languages	JavaScript (ES6+), Python, Java, C
Web Technologies	React.js, Next.js, HTML5, CSS3, TailwindCSS
Database Management	MongoDB, Firebase, SQL, GraphQL
Frameworks & Libraries	Express.js, Redux, React Testing Library, Spring Boot
Testing & Quality Assurance	Jest, Selenium, TDD Practices, CI/CD Integration
Tools & Software	Figma, Git, Docker, Jenkins, Webpack
API Design & Integration	RESTful APIs, GraphQL APIs, AWS, Google Cloud, Serverless Architecture
DevOps Practices	Kubernetes, Docker, Azure DevOps, GitHub Actions
Web Accessibility & Performance	WCAG Compliance, Cross-Browser Compatibility, Front-End Performance Optimization

Notable Projects

AI Messaging Platform

Technologies Used: Next.js, Firebase, TailwindCSS, TypeScript, OpenAI

- Developed and launched an AI Messaging Platform, integrating OpenAI's APIs to create a dynamic and engaging conversational experience tailored to user preferences.
- Implemented Firebase, which facilitated real-time messaging and ensured efficient, scalable management of user data across devices.
- Designed a mobile-first user interface focusing on accessibility and optimal user interaction.
- Implemented features like message archiving, real-time data exportation, message export, and other customization settings
- Developed AI personalities, adapting conversations to fit diverse user needs and improving engagement.

Music Recommendation System

CS492: Machine Learning Capstone Project

Technologies Used: Python, Jupyter Notebook (Pandas, NumPy), Scikit-Learn, TensorFlow

- Developed a sophisticated music recommendation system using both collaborative filtering and content-based filtering techniques, enhancing personalization of music suggestions based on user interactions and profile data.
- Managed data preprocessing and feature engineering using Pandas and NumPy within Jupyter Notebooks to structure user data and music metadata effectively for analysis.
- Applied advanced machine learning techniques, including matrix factorization models and neural collaborative filtering (using TensorFlow), to develop predictive models that align closely with user preferences.
- Tested model's performance using metrics like precision, recall, and F1-score, refining the system to ensure accurate recommendation outputs.

Advanced Search Engine

CS272: Software Development Project

Technologies Used: Java, HTML, JavaScript, Jetty (servlets), Multithreading, Sockets, HTML Parsing

- **Inverted Index:** Engineered an inverted index in Java for efficient document indexing and swift keyword-based retrieval.
- **Search Features:** Implemented partial search capabilities, dynamic query processing, and web crawling for data fetching and indexing.
- **Performance Optimization:** Enhanced system performance using multithreading for simultaneous query processing and crawling tasks.
- **Web Crawler Creation:** Developed a robust web crawler to expand the search engine's index by automatically parsing and fetching data from web pages via HTTP and HTTPS protocols. Optimized it to handle redirects and link normalization.
- **Search Engine Integration:** Assembled all components into a fully functional search engine. Implemented advanced features such as real-time query processing, dynamic HTML content generation, user search history tracking, favorite results, and privacy options.
- **User Interface:** Developed an intuitive web interface supporting query submissions, search history, and favorites management.
- **Security and Performance Enhancements:** Instituted a custom read/write lock system for thread-safe operations and designed a graceful shutdown protocol for the search engine, ensuring data integrity and system reliability.

Unix System Inspector Utility

Technologies Used: C, Unix/Linux, Bash, Makefile

- Engineered a comprehensive Unix utility designed to monitor and report on system, hardware, tasks, and process information, similar in functionality to the 'top' command but with enhanced user control and reporting features.
- Implemented system calls to interact with the **/proc** pseudo-filesystem to extract real-time data about system processes, hardware configurations, and operational statistics, thereby providing a dynamic view of the system's state.
- Developed a modular program structure in C, consisting of multiple components: **inspector.c** for command-line interface handling, **sysInfo.c** for retrieving system information, **hardwareInfo.c** for hardware specifics, and **taskInfo.c** for task management insights.
- Enabled detailed user-driven query capabilities through command-line options, allowing users to customize the output to display specific system insights such as task lists, hardware details, and system statistics.
- Employed rigorous testing methodologies, including unit testing and integration testing, to ensure reliability and accuracy of the system reporting, using 'make test' commands for automated test execution.

Education

Major: Computer Science **2018 - 2022**

University of San Francisco

GPA: 3.13/4.0

Relevant Coursework: Introduction to Computer Science I & II, Data Structures and Algorithms, Discrete Mathematics, Linear Algebra and Probability, Calculus I, General Physics, C and System Programming, Programming Language Paradigms, Operating Systems, Software Development, Data Visualization, Scientific Computation, Introduction to Machine Learning, Computer Architecture

Activities and Honors:

- Active Member of the Computer Science Club.
- Hackathon participant, 2nd place in 2021 WeHack.
- Member of Phi Delta Theta Fraternity.
- Participant in the Muscat Scholars Program.
- Member of Getty's Honors Program.