

Nathan Huey

Irvine, CA / nhuey.com / github.com/njhuey / linkedin.com/in/nhuey

Education

University of California, Irvine

Irvine, CA

Bachelor of Science, Computer Science – GPA 4.0

DEC 2024

Coursework: Machine Learning, Data Structures, Algorithms, SQL Databases, Systems, Computer Architecture, Programming Languages, Linear Algebra, Discrete Mathematics

Skills

Languages – Python, JavaScript, Java, C++, CSS, HTML

Frameworks/Libraries – Django, FastAPI, Next.js, React

Tools – Docker, Git, Github, Unix Shell

Interests – Full Stack Web Development, Machine Learning

Experience

Full-Stack Software Engineering Intern – PipeIQ

JULY 2023 – AUG 2023

Python, AWS, PostgreSQL, FastAPI, Docker

San Francisco, CA

- Developed and deployed emailing system using generative AI which delivered targeted and personalized sales emails to 100+ potential customers
- Implemented and managed API endpoints for PostgreSQL database using AWS Lambda for an efficient and scalable RESTful API
- Spearheaded system for customer data collection through multiple third-party integrations which gathered data on 200+ attributes
- Consistently made reliable contributions in a collaborative agile environment

Software Engineer - Hack at UCI

NOV 2022 - PRESENT

Python, FastAPI, MongoDB, TypeScript, Next.js, React Bootstrap, Docker

University of California, Irvine

- Implemented API route to conveniently apply on hackuci.com, used by more than 400 applicants
- Designed and developed a portal page for hackers to effortlessly manage and review their application
- Built a secure and intuitive login page relied upon by hackers, organizers, and sponsors
- Incorporated Docker into pre-existing codebases to aid new developers in local environment setup and for easy deployment

Undergraduate Researcher – Shi Labs

MAY 2023 – PRESENT

Python, PyQt5, Numpy, ctypes, dcapi

University of California, Irvine

- Adapted and customized pre-existing software to seamlessly integrate with the specific microscope at Shi Labs, ensuring compatibility and functionality
- Collaborated with a research team to optimize the program's performance and enhance the accuracy of cellular imaging at the molecular level

Projects

Shareloft (shareloft.com) - A private community/platform for thousands of retail investors

Python, Django, TypeScript, Next.js, React, ChakraUI, Axios, PostgreSQL, Prometheus, Grafana, Docker

- Implemented API for creating and managing a collective community event calendar used by 100+ users
- Created a reputation system that awards users for their contributions to discussions and forums
- Integrated tools Prometheus and Grafana for comprehensive web analytics and data visualization on 6 unique metrics to improve user experience
- Created 30+ unit tests for back-end API that eliminated errors and bugs through continuous integration

WordleBot (wordlebot.nhuey.com) - A program designed to accurately guess the daily Wordle.

Python, Django, TypeScript, Next.js, React, ChakraUI, Axios, Docker

- Created a full-stack web application where users can interactively solve the daily Wordle or test the bot's accuracy with a custom 5 letter word
- Using evaluations calculated according to positional letter frequency, WordleBot guesses the daily Wordle with 89% accuracy in an average of 4.3 guesses needed