Nathan Huey

Software Engineer

njhuey@uci.edu
nhuey.com | github.com/njhuey | linkedin.com/in/nhuey

Experience

University of California, Irvine   Irvine, CA
Bachelor of Science, Computer Science – GPA 4.0   *Expected Grad - 2024*
Coursework: Data Structures, Algorithms, SQL Databases, Software Optimization, Systems, Computer Architecture, Machine Learning, Programming Languages, Linear Algebra, Discrete Mathematics

Skills

Languages – Python, JavaScript, Java, CSS, HTML
Frameworks/Libraries – Django, FastAPI, Next.js, React
Tools – Docker, Git, Github, Unix Shell, Bazel

Experience

Software Engineer Intern – Digital Biology   *SEP 2023 – DEC 2023*
Python, Bazel, AWS, Sphinx   *Boston, MA*
- Vendored packages Pytorch and Cellpose into the Digital Biology monorepo, allowing a team of scientists to better analyze cell segmentation
- Worked in a team of 4 software engineers to upgrade internal documentation tools, which made it easy to contribute documentation and build the docs locally

Software Engineer Intern – PipeIQ   *JULY 2023 – AUG 2023*
Python, AWS, PostgreSQL, FastAPI, Docker   *San Francisco, CA*
- Engineered and launched an emailing system leveraging generative AI technology to deliver targeted and personalized sales emails to 100+ potential customers
- Collaborated with teams and product managers in an agile environment to develop scalable and efficient REST API endpoints using AWS Lambda
- Spearheaded data aggregation system through multiple third-party integrations, culminating in the collection of valuable insight across 200+ attributes

Tech Organizer - Hack at UCI   *NOV 2022 – PRESENT*
Python, FastAPI, MongoDB, TypeScript, Next.js, React Bootstrap   *University of California, Irvine*
- Developed API route for a convenient and streamlined application process on hackuci.com, used by 400+ applicants
- Collaborated with UI/UX designers to develop an application portal, enhancing user experience for hackers through enabling efficient application management and review
- Crafted a secure and user-intuitive login page, relied upon by hackers, organizers, and sponsors

Undergraduate Researcher – Shi Labs   *MAY 2023 – PRESENT*
Python, PyQt5, Numpy, ctypes, dcamapi,   *University of California, Irvine*
- Adapted pre-existing software to integrate with the microscope at Shi Labs, ensuring compatibility and functionality
- Collaborated with a dedicated research team to enhance the accuracy of cellular imaging at the molecular level

Projects

Shareloft (shareloft.com) - A private community/platform for thousands of retail investors hosted by Rob Mauer
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
- Developed 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, systematically eliminated errors and bugs through continuous integration

WordleBot (wordlebot.nhuey.com) - A full-stack web application designed to accurately guess the daily Wordle
Python, Django, TypeScript, Next.js, React, ChakraUI, Axios, Docker
- Created a full-stack web application, enabling users to interactively solve the daily Wordle or assess the bot's proficiency with user-defined 5-letter word
- Wordlebot, utilizing evaluations calculated according to positional letter frequency, achieves an 89% accuracy in predicting daily Wordle while only requiring an average of 4.3 guesses