**Nathan Huey** [njhuey45@g.ucla.edu](mailto:njhuey45@g.ucla.edu)

Software | Data | Infrastructure [nhuey.com](https://nhuey.com/) | [github.com/njhuey](https://github.com/njhuey) | [linkedin.com/in/nhuey](https://linkedin.com/in/nhuey)

***Education***

**University of California, Los Angeles** Los Angeles, CA

*Master of Science, Computer Science March 2026*

**University of California, Irvine** Irvine, CA

*Bachelor of Science, Computer Science – GPA 3.985 (top 4% of class) June 2024*

Coursework: Data Structures, Algorithms, SQL Databases, NoSQL Databases, Systems, Machine Learning, Linear Algebra, Discrete Mathematics, Multivariable Calculus

***Skills***

Languages – Python, SQL, Go, Bash, C, C++

Frameworks/Libraries – Dagster, DuckDB, Pandas, Numpy, Pydantic, FastAPI

Tools – Unix, Linux, Bazel, Docker, Git, Github

***Experience***

**Software Engineering Intern – Digital Biology** *SEP**2023 – PRESENT*

*Python, Bazel, Dagster, SQL, Pandas, DuckDB, Linux Watertown, MA*

* Integrated and automated fully productionized sequencing pipeline into data orchestration tool Dagster, which led to a more robust, reliable, and visible data pipeline
* Spearheaded building an application to auto-generate configuration files needed for sequencing and to automate the main data pipeline, saving a team of scientists and data scientists 3-5 hours per week
* Created software to constantly mirror external SQL database within the company’s local file system, which later became the entry point for all programmatic access of lab data for the entire company
* Designed and implemented a tool that is durable, scalable, normalized, and seamlessly integrable (~14 lines of code) to create snapshots, which was used to backup critical data locally and to the cloud

**Software Engineering Intern – PipeIQ** *JULY 2023 – AUG 2023*

*Python, PostgreSQL, AWS, FastAPI, Docker San Francisco, CA*

* Designed, developed, and deployed a generative AI pipeline using large-scale LLMs which delivered targeted and personalized sales emails to 100+ potential customers
* Collaborated with front-end engineers and product managers to consistently deliver scalable and efficient REST API endpoints using AWS Lambda
* Aided effort to create a data aggregation system, culminating in the collection of valuable insight across 200+ attributes for each potential customer

**Tech Organizer - Hack at UCI** *NOV 2022 – JUNE 2024*

*Python, FastAPI, MongoDB, TypeScript, Next.js, Tailwind CSS University of California, Irvine*

* Developed API routes for a convenient and streamlined application process on [hackuci.com](https://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

**Undergraduate Researcher – Shi Labs** *MAY 2023 – SEP 2023*

*Python, PyQt5, Numpy University of California, Irvine*

* Contributed to adapting and customizing pre-existing software to seamlessly integrate with the specific microscope at Shi Labs, ensuring compatibility and functionality

***Projects***

**WordleBot** ([wordlebot.nhuey.com](https://wordlebot.nhuey.com/)) - A full-stack web application designed to guess the daily Wordle accurately

*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 the daily Wordle while only requiring an average of 4.3 guesses