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

Data | Machine Learning | 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 December 2025*

Coursework: Large-Scale Machine Learning, Reinforcement Learning, Big Data Systems

**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 – MAY 2025*

*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 database within the company’s local file system, which later became the entry point for all programmatic access of that 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