

Ryder Mitchell

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EDUCATION

Pitzer College
B.A. Computer Science (through Harvey Mudd College)

Aug. 2018 – May 2024
Claremont, CA

EXPERIENCE

Programming Assistant *National Core Renaissance*

January 2024 – August 2024

- Led development on a dashboard for affordable housing developers to analyze energy usage.
- Designed a platform using Typescript, Nest.js, PostgreSQL, Prisma, Apollo, GraphQL, and Next.js.
- Held discussions on UI/UX design, system architecture, and tech stack.
- Created Nest.js Pipes, Validation, and Guards to enhance external and internal security.
- Enabled user authentication and sessions using Redis cache, Passport, and GraphQL.
- Automated data processing and scraping from external API endpoints using Python and Cheerio.
- Calculated costs and pricing from switching to Azure services.

Full Stack Developer *Union of Concerned Scientists*

August 2023 – May 2024

- Collaborated with a team to develop a dashboard to visualize IIJA spending in underserved communities.
- Met with policy makers at the California State Capitol to gather feedback on website features.
- Led discussions on UI/UX design, website functionality, and features.
- Created a design system in Figma inspired by the UCS design system.
- Created features to visualize key findings in an R Shiny dashboard application.

Undergraduate Computer Vision Researcher *Harvey Mudd College*

May 2023 – July 2023

- Tuned ML parameters to classify flowers near honey bee hives in overhead drone images.
- Developed tools in Python to improve pixel semantic segmentation precision by 35%.

Python and Java Tutor *Pitzer College and Harvey Mudd College*

September 2022 – January 2024

- Created a workflow for HMC CS professors to generate customized feedback forms as PDFs in Py2PDF.
- Assisted professors in grading over 50 student assignments weekly.

Software Engineer Intern *Braid*

May 2022 – August 2022

- Implemented new features to increase ODFI and RDFI transactions and revenue.
- Improved user sign-up pages in React Native for Web to increase user signups.
- Tested features by creating new feature flags using mutations and queries in GraphQL in Java and Kotlin.

LEADERSHIP EXPERIENCE

Device Repair Service: Diagnosed and repaired components from over 25 phones and laptops for low-income students.

Keyboard Club: Organized meetings and managed events for a club with over 20 members.

PROJECTS

Shell: A Terminal Portfolio | [Website](#) | *TypeScript, React*

September 2024 – Present

- Designed an open source web hosted shell terminal with additional functionality as a creative portfolio.

Sage: A Desktop Notifications Platform | [Website](#) | *TypeScript, React, Rust, Tauri*

March 2023 – May 2023

- Developed a cross platform application to display real time data using REST APIs for a club on campus.

Pollen Identification Project | [Website](#) | *Python, Jupyter, PyTorch, OpenCV, Git*

January 2022 - May 2022

- Utilized PyTorch and OpenCV to assist researchers in training ML models to identify pollen grain species.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, PostgreSQL, Prisma, Python, Kotlin, Java, R, HTML, CSS

Frameworks: Next.js, Nest.js, Express, Spring, React, React Native, Node.js, Electron.js, Tauri, Redux, Tailwind

Developer Tools: Git, Google Firebase, VS Code, Figma, IntelliJ, Azure, Postman, Xcode, Redis, Retool, CircleCI

Libraries: Tensorflow, Pandas, NumPy, PyTorch