Ryder Mitchell

909-994-6082 | rmitche@students.pitzer.edu | linkedin.com/in/rmitche | github.com/rmitchellpitzer | rydermitchell.com

EDUCATION

Pitzer College — Aug. 2018 – May 2024
B.A. Computer Science (through Harvey Mudd College) — 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, 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.
- Analyzed government spending data in marginalized California communities using R.

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
- Contributed to the HMC Clinic program by developing a tool in Python to give students feedback from submissions.
- 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 Kotlin.
- Made UI improvements and fixed style errors in the React Native App.

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

ICS Specific Language | Github | *Python, ICS, Tkinter* — February 2023 – May 2023
- Utilized the ICS and Tkinter libraries to create an app to generate calendar files to use in other apps.

Sage: A Desktop Notifications Platform | Github | *JavaScript, React, Rust, Tauri* — March 2023 – May 2023
- Developed a cross-platform desktop application using Tauri for a club on campus to buy and sell products.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, PostgreSQL, Prisma, Python, Kotlin, Java, R, HTML, CSS
Frameworks: Next.js, Nest.js, Express, React, React Native, Node.js, Electron.js, Tauri, Redux, Tailwind CSS
Developer Tools: Git, Google Firebase, VS Code, Figma, Intellij, Azure, Postman, Xcode, Redis, Retool, CircleCI
Libraries: Tensorflow, Pandas, NumPy, PyTorch