Ryan Uyeki

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EDUCATION

University of California, Davis　　　　Davis, CA
Bachelor of Science in Computer Science　　　　*Sep 2021 – Jun 2025*

EXPERIENCE

Software Engineer Intern　　　　Feb 2025 – Current
Persist AI　　　　*West Sacramento, CA*
- Spearheaded the development of a custom project management platform now serving as the central hub for task tracking and cross-functional team coordination
- Implemented Python scripts to ensure a seamless migration of lab data from SQLite to a PostgreSQL database
- Contributed to feature development for a full-stack biotech data platform, including interactive data viewers and custom onboarding scripts for drug profiling

Software Engineer Intern　　　　Dec 2023 – Dec 2024
CodeLab　　　　*Davis, CA*
- Rebuilt the Siegel Lab's enzyme web database, serving over 40 undergraduate institutions and 1000 students nationwide by transitioning the tech stack from PHP to a modern React, Next.js, and Typescript framework
- Implemented user authentication and level-based authorization using Firebase and Google OAuth
- Engineered a user management page for administrators to approve/delete selected users within their institution
- Recreated the frontend of the website to the design team's specifications using NextUI and Tailwind CSS

Site Reliability Engineer　　　　Jan 2023 - Feb 2024
LibreText　　　　*Davis, CA*
- Maintained a large Kubernetes cluster for educational software used by students and teachers nationwide
- Created PromQL queries for real-time tracking of key user behaviors such as pod-spawning and cluster utilization
- Implemented interactive HTML components to the JupyterHub website, boosting usage by 10%
- Improved software documentation accuracy to increase future team efficiency

PROJECTS

ScoutAI | *Python, OpenAI API, Langchain, Beautiful Soup, SQLite*　　　　Dec 2024 – May 2025
- Developed an AI-powered scouting assistant for the UC Davis Basketball team to support game preparation
- Led data pipeline development, including scraping opponent, player, and team statistics into a SQLite database
- Implemented a memory module for the chatbot to maintain context across dialogues, enabling accurate responses
- GitHub Link: https://github.com/nmaffly/SmartAnalytics

Hephaestus | *Flask, Jinja, python, HTML, CSS, JavaScript*　　　　Feb 2025 – May 2025
- Individually developed a custom full-stack project management platform for Persist AI, which is currently serving as the company's central hub for task management and cross-team coordination across all departments
- Implemented key features including a timeline view, project dashboards with associated tasks, robot booking functionality for lab resources, and an interactive dashboard to enhance user engagement and productivity

D2D Website | *Next.js, React, Prisma, Firebase, MySQL, Vercel, AWS, TypeScript*　　　　Dec 2023 – Dec 2024
- Developed for the Siegel Lab, website aims to enhance user experience in submitting and curating enzyme data
- Website Link: https://d2d-cure.vercel.app/

NBA Player Ranking Website | *Python, NBA API, streamlit*　　　　Nov 2023 – Jan 2024
- Developed a website that will rank all active NBA players based on the selected stat criteria
- Website Link: https://sliderstats.streamlit.app/

TECHNICAL SKILLS

Programming: Python, C++, JavaScript, TypeScript, HTML/CSS, SQL
Developer Tools: React, Next.js, Git, GitHub, Flask, Jinja, Prisma, MySQL, PostgreSQL
Languages: Native English, Full professional Japanese