Adrian Clement

adrianwclement@gmail.com • (503)-521-6938 • linkedin.com/in/adrian-clement • github.com/adrianwclement

Experience

Software Engineering Intern

Sekai • **Los Angeles, CA, USA**   **May 2024 – Present**

- Developed vital features such as real-time data analytics and AI optimization tools using **TypeScript** and **Next.js**, enhancing user experience and system performance as the first engineering hire at Sekai, an **Andreessen Horowitz-backed startup**
- Pioneered the integration of **Amplitude** and **Hotjar analytics from scratch** across the entire application, leveraging **TypeScript** with custom libraries, hooks, and event handlers, enabling the tracking of over **50,000 user events** and resulting in a **650% improvement in real-time data collection and analysis**
- Established **100+ Key Performance Indicator metrics** and constructed **15+ interactive dashboards** to analyze user flows for **2,000+ users**, providing critical insights into bottlenecks and drop-off points, resulting in a **60% increase in user retention** and significantly enhancing data-driven decision-making capabilities
- Designed extensive **end-to-end** tests using **Playwright**, ensuring robust app reliability and **reducing critical bugs by over 40%**
- Performed profiling and optimization of AI prompting engines using **specialized APIs** to formulate prompt generation strategies, resulting in **120% more accurate and relevant** AI-generated responses
- Actively contributed to daily standup meetings, strategy sessions, code reviews, and sprint planning, enhancing communication and collaboration skills while adhering to **Agile practices**

Research Assistant

Pomona College Privacy and Security Lab • **Claremont, CA, USA**   **May 2023 – August 2023**

- Conducted large-scale web scraping of over **1,000,000** app store privacy labels utilizing a **Selenium and Beautiful Soup-based Web Crawler designed from scratch**, achieving comprehensive data collection for privacy analysis
- Applied Object-Oriented Programming principles to construct customized **Python classes**, streamlining survey data analysis and cleaning for over **150,000 data points**, enhancing the efficiency and accuracy of data processing **by 120%**
- Directed studies evaluating app tracking and data privacy labels on iOS and Android platforms for **50+ users** using **Qualtrics**, providing critical insights for improving user education on privacy
- Co-authored **"Prevalence and Understanding of Technical Terms in App Privacy Labels"** (In submission to PETS: Privacy Enhancing Technologies Symposium)

Projects

- <u>**Signal:**</u> Engineered an interactive **Wordle-like** web game using **Next.js** and **TypeScript**, featuring daily-decoded messages through a substitution cipher. Incorporated dynamic game logic, user state management, and server-side rendering. Currently preparing for **AWS** deployment with **Docker** for scalability and integrating **PostgreSQL** for data management
- <u>**p-DormLife**</u>: Constructed a **React-based** web platform centralizing housing logistics for over **6,000 students** across 5C colleges. Utilized **Pandas** and **NumPy** for data management and implemented a roommate-matching feature using **K-means clustering** and **nearest-neighbor algorithms** to maximize compatibility
- <u>**AI Chatbot:**</u> Developed an interactive chatbot utilizing **Streamlit** and **Object-Oriented Programming** in **Python**, integrated with the **OpenAI API**. Designed to streamline user interactions and provide tailored responses, enhancing engagement
- <u>**Personal Website:**</u> Crafted a personal portfolio website using **JavaScript, HTML, and CSS**, showcasing projects and professional details [adrianwclement.github.io]

Education

Pomona College, Claremont, CA, USA   **May 2026**

Computer Science Major • Chemistry Minor • GPA: 3.96/4.00

Relevant Coursework: Discrete Math & Functional Programming • Data Structures & Advanced Programming in Java • Data Analysis for Life Sciences in Python • Linear Algebra • Calculus I, II & III • Introduction to Statistics • Artificial Neural Networks & Deep Learning • Computational Analysis of Big Data • Computer Graphics: 3D Programming Applications • Algorithms

Skills

Programming Languages: Java, JavaScript, TypeScript, Git/Version Control, Python, Haskell, HTML5, CSS, Tailwind, Bash, SQL
Frameworks/Libraries: React.js, Next.js, Node.js, React Native, Playwright, Pandas, NumPy, BeautifulSoup, JUnit, Docker, Flask, Selenium
Technologies: VS Code, GitHub, Vercel, AWS, PostgreSQL, Linear, PyCharm, Jupyter Notebook, BitBucket, Qualtrics

Awards & Activities

Awards: 2x Pomona Scholar • 4x NCAA All-American Honors • 2x NCAA Academic All-American • 2x Team & Conference Record Holder
Activities: Varsity Swimming • P-ai SWE Project Club Member • Teaching Assistant for Pomona College STEM Courses • Aquatic Staff