

Adrian Clement

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Experience

Fullstack Software Engineering Intern

Sekai • Los Angeles, CA, USA

May 2024 – Present

- Pioneered the integration of **Amplitude** and **Hotjar** analytics from scratch using **Next.js**, **TypeScript**, custom libraries, and hooks, tracking over **50,000 user events** and achieving a **650% improvement** in real-time data collection and analysis as the first engineering hire at Sekai, an **Andreessen Horowitz-backed startup**
- Established **100+ Key Performance Indicators** and constructed **15+ interactive dashboards**, enabling real-time monitoring of over **2,000 users**, providing crucial insights into bottlenecks, and resulting in a **60% increase in user retention**
- Performed **profiling and optimization of AI models**, formulated prompt generation strategies, and evaluated the best models for image and audio generation, achieving a **120% improvement in response accuracy** and **increased relevance**
- Designed extensive **end-to-end tests** using **Playwright**, ensuring robust app reliability and **reducing critical bugs by over 40%**
- Actively contributed to **Agile** practices, including code reviews, daily standups, and sprint planning, fostering collaboration and maintaining high code quality within a fast-paced development environment

Research Assistant

Pomona College Privacy and Security Lab • Claremont, CA, USA

May 2023 – August 2023

- Conducted large-scale web scraping of **1,000,000+** app store privacy labels for iOS and Android platforms, 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%**
- Co-author of “**Prevalence and Understanding of Technical Terms in App Privacy Labels**” (In submission to PETS: Privacy Enhancing Technologies Symposium)

Projects

Signal:

- Engineered a full-stack web-based word decoding game with dynamic puzzles using **Next.js**, **TypeScript**, and **React**, featuring dynamic game logic, user state management, and client-server rendering for an engaging user experience
- Integrated **PostgreSQL** for robust data management via **RESTful APIs** and **Google OAuth** for user authentication
- Currently planning automated deployments with **Docker** and **AWS ECS** to ensure scalability and reliability with future integration of **AWS RDS** for enhanced database management and monitoring via **AWS CloudWatch**

p-DormLife:

- Constructed a **React-based** web platform centralizing housing logistics for over **6,000 students** across the 5C colleges
- Implemented roommate-matching using **K-means clustering** and **nearest-neighbor algorithms** to optimize compatibility
- Leveraged **Pandas** and **NumPy** for data processing and management

Personal Website [adrianwcclement.github.io]:

- Crafted a personal portfolio website using **JavaScript**, **HTML**, and **CSS**, showcasing projects and professional details

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, Python, TypeScript, JavaScript, HTML5, CSS, Bash, Haskell, Tailwind CSS, SQL, R

Frameworks: Next.js, React.js, TensorFlow, Playwright, Node.js, React Native

Libraries: Pandas, NumPy, SciPy, Scikit-learn, Keras, BeautifulSoup, JUnit, Flask, Selenium

DevOps & Cloud Infrastructure: Git/Version Control, Docker, Amazon Web Services, Vercel

Technologies: VS Code, GitHub, Jupyter Notebook, Linear, PyCharm, 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