Gaia Dennison

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EXPERIENCE

Software Engineer   **May 2023 - December 2023**
Liferay   *Diamond Bar, CA*

- Built custom software solutions, conducted ongoing project maintenance, refactored code, maintained documentation, and facilitated client interactions for customers across various sectors, including finance and healthcare. Collaborated with multinational teams on **full lifecycle projects**, utilizing **Agile** methodologies and a diverse array of technologies.
- Key achievements include:
  - Implemented a custom site auditing tool using **Java**, **JSPs**, and **MySQL** to streamline the analysis of site data, empowering the client to efficiently filter events by site, track changes within specific sites, and conduct targeted keyword or advanced searches on site events
  - Developed custom widgets using **Java**, **React**, and **MySQL** to help digitize the form submission process for a prominent banking client and facilitate the secure submission of sensitive customer data
  - Developed a PDF export feature for customer banking forms using **React** and the **React-PDF** package, enhancing user convenience and contributing to the overall modernization of the client's document management system

Team Lead   **October 2022 - May 2023**
CPP VR Lab   *Pomona, CA*

- Led the development of a **Unity**-based VR game using **C#**, tailored for educational purposes in a core computer science course
- Directed the Agile implementation across all project facets, navigating leadership challenges and adapting to a new development paradigm
- Transformed the abstract concept of the pumping lemma for regular languages into an immersive educational experience, enhancing understanding through tangible interaction

Research Assistant   **June 2022 - August 2022**
USC-Amazon SURE   *Los Angeles, CA*

- Led the optimization of a statistical inference framework and presented the outcomes at an academic conference
- Implemented multiprocessing in **Python** for independent computations and introduced a preprocessing transformation of the data to engineer new input features and expose possible nonlinear feature interactions
- Optimized the framework with a 1.6x runtime speedup and 35% reduction in the root mean squared error

PROJECTS

Plot-AI
Source Code: *github.com/ai-hackathon-team-23/plot-ai*

- **2nd place at the 2024 AI2 Hackathon** with a **Next.js**-based application facilitating collaborative financial modeling for realtors and investors
- Features an interactive spreadsheet and AI-driven property search, built with **TypeScript**, **Tailwind CSS**, **tRPC**, and **PostgreSQL**

Student Calendar Web Application
Source Code: *github.com/codangz/Student-Calendar*

- Led the Agile development of a student calendar web application, streamlining academic and personal schedule management
- Implemented using **Node.js** and **Express.js**, incorporating **JWT** authentication and authorization, **SCSS**, **React**, **Bootstrap** for form validation, **Mongoose**, and **MongoDB**

EDUCATION

California State Polytechnic University, Pomona - **Bachelor of Science in Computer Science**
Magna Cum Laude - 3.8+ GPA

SKILLS

- **Languages:** Java/Java EE, Python, C/C++, C#, JavaScript, Kotlin, Typescript, SQL, CSS, HTML, Assembly
- **Frameworks and Libraries:** Next.js**,** Node.js, React, Express, Spring Boot, JSPs, Bootstrap, JAX-RS, JUnit, Tailwind
- **DBMS:** MongoDB, MySQL, PostgreSQL
- **Misc:** Linux (Ubuntu), Shell Scripting, AWS, Jira, GitHub, CI/CD, IntelliJ IDEA, Visual Studio Code, Gradle, Maven, APIs/web services, MVC, Docker