

William Hu

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Education

- University of Southern California** August 2025 - May 2027
Master of Science (MS), Computer Science
- University of California - Santa Cruz** September 2020 - June 2024
Bachelor of Science (BS), Computer Science

Professional Experience

- Repotted Inc** May 2026 - August 2026
Indie Roblox Game Developer Remote
- Developed a multiplayer soccer game in Roblox from the ground up, implementing core gameplay systems for movement, ball interaction, shooting, passing, scoring, and match progression.
 - Engineered reusable Luau modules shared between player controls and AI bots to ensure consistent gameplay behavior and reduce duplicated code.
 - Built client-server gameplay systems using Roblox networking patterns, balancing responsive player feedback with server-authoritative game logic.
 - Programmed soccer AI behaviors for bots, including ball pursuit, positioning, possession decisions, passing, and shooting.
 - Designed and implemented user interface elements for match state, scoreboards, timers, team selection, and in-game feedback.
 - Maintained the project with Git/GitHub, organizing changes into clear version-controlled updates.
- Precur AI** January 2025 - October 2025
Artificial Intelligence Systems Engineer Contractor San Jose, CA
- Engineered a unified API/middleware layer for diverse LLM providers including OpenAI and Google Gemini, facilitating seamless model experimentation and efficient backend transitions.
 - Enhanced agentic workflows through the integration of OpenTelemetry, Logfire, and Google Cloud Tracer, ensuring improved reliability and visibility in LLM-based system performance.
 - Created sophisticated evaluation tooling to analyze Q&A datasets, employing rubric-driven methods to generate structured feedback for refining the question-answering capabilities of LLMs.
 - Streamlined synthetic data generation and evaluation processes, fostering rapid iteration and supporting the development of robust agentic systems.
- Jennifer Hong's Campaign Team for City Council** November 2024 - March 2025
IT & Digital Communications Assistant Cerritos
- Developed and maintained the campaign website using React, enhancing user experience and mobile responsiveness while migrating 100+ legacy content pieces for improved clarity.
 - Provided technical support for the campaign's digital platforms, utilizing React to troubleshoot issues, update content, and streamline workflows, ensuring timely communication throughout the campaign.
- Siemens** May 2023 - September 2024
Full-Stack Software Engineering Intern Costa Mesa, CA
- Led CRM/data migration initiatives, utilizing version control to manage code changes and ensure seamless integration with Salesforce, enhancing operational continuity for customer support.
 - Developed REST API-driven web applications and internal tools, employing Docker to streamline deployment processes and bolster data integrity during system transitions.
 - Designed automation scripts for data synchronization, contributing to the efficiency of the Data Glide portal, which centralized service status and improved troubleshooting workflows.
- Customer Support Data Glide** May 2023 - May 2024
Full-Stack Engineering Intern Costa Mesa, CA, USA

Projects & Outside Experience

- Engineered a full-stack CSDG web application utilizing Pytorch for efficient data handling and GPU acceleration, enhancing real-time data processing capabilities for customer support teams.
- Developed interactive pages with dynamic updates and seamless backend integration, resulting in a 30% improvement in team efficiency through streamlined access to critical server maintenance and service status data.

AI Web Crawler

May 2025 - Present

- Engineered an AI-powered web crawler leveraging machine learning techniques and the Tavily Search API to intelligently navigate and extract data from university websites.
- Implemented prompt engineering strategies using the OpenAI API to enhance NLP capabilities, ensuring accurate parsing and structured output of academic program information.

Mendix-Based Database & API Interface

May 2023 - August 2024

Lead Developer

Costa Mesa, CA, USA

- Developed a low-code web application using Mendix to replace a deprecated legacy database interface during a migration to cloud-based services
- Replicated and enhanced critical functionality from legacy tools, ensuring continuity for internal teams during system transition
- Designed and implemented interactive web forms to integrate with newly developed REST APIs, enabling streamlined data input and retrieval
- Collaborated with cross-functional teams to support ongoing backend API development and ensure seamless frontend-backend integration

Skills

Skills: Python, C/C++, Java, SQL, Batch/Shell, HTML/CSS, Haskell, Git, AWS, Google Cloud Platform, MySQL, Postgres, Oracle SQL Developer, Oracle, Remote Desktop, Mendix, Postman, VirtualBox, Android Studio, OpenAI, Google Gemini, Vertex AI, LiteLLM, LangChain, Browser Automation, Logfire, opentelemetry, Spring, React.js, NumPy, Pandas, Scikit-learn, OpenAI SDK, Gemini SDK, Problem Solving, Collaboration, Web Scraping, Automation, Data Integrity, Agentic Workflow

Languages

Mandarin
