Jake Wallin

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Experience

Software Engineer Jan 2023 - Present

Arista Networks San Francisco, CA

* Spearheaded an instrumental solo project to overhaul the Link Aggregation Group (LAG) page, the main feature of the team’s latest software release. Introduced a comprehensive redesign, including a streamlined Enhanced Hash Configuration workflow, a real-time updated Member Utilization chart using recharts, and a dynamic dashboard to display operational-state data.
* Led a critical cross-functional project between the CloudVision and DANZ Monitoring Fabric teams, where I developed a user interface (React + TypeScript) to enable customers to configure port mirroring sessions from switch interfaces in the CloudVision production network and analyze traffic within the DANZ Monitoring Fabric tools. Implemented a complex workflow for two mirroring protocols, GREeNSPAN and SPAN, efficiently mirroring network traffic from CloudVision switches to the DANZ Monitoring Fabric.
* Developed user interface components for the DANZ Monitoring Fabric dashboard and Policy Configuration page using React + Typescript, enhancing network administrator’s visibility into their systems.
* Collaborated closely with the backend team to refine and update APIs, enabling accurate display of network health, traffic statistics, and configuration settings for switches, interfaces, and policies.

Software Engineer Intern June 2022 – Sep. 2022

Arista Networks San Francisco, CA

* Engineered a developer tool - API Schema Browser. This front-end module provides a streamlined menu of API URLs, real-time visualization of API responses, and capabilities to query historical request data.

Education

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| University of California - Los Angeles | Los Angeles, CA |
| Master of Science in Computer Science, Area of Specialization: Artificial Intelligence | Sep. 2021 – Dec. 2022 |
| University of California - Los Angeles | Los Angeles, CA |
| Bachelor of Science in Computer Science | Sep. 2017 – Mar. 2021 |
| Projects |  |
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GPT-4o LangChain Chatbot | React, TypeScript, LangChain, OpenAI

* Develop a backend server using Node, TypeScript, Langchain that sends queries to the new GTP-4o model via OpenAI API
* Design a chat-based user interface with React and Chakra UI so users can ask questions about their personal documents
* Use Langchain’s MemoryVectorStore for vector embeddings and similarity search, then pass the similarity result to GPT-4o, and finally display the result in the UI

Technical Skills

Languages: Python, JavaScript, C/C++, Java, SQL, HTML/CSS, R

Libraries/Frameworks: React, TypeScript, Node, Express, MongoDB, Next, LangChain