JACOB NISNEVICH

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Staff Software Engineer with experience building and architecting systems across the stack. Currently working on developing AI/LLM-powered applications at enterprise scale.

EXPERIENCE

Staff Software Engineer, Qualtrics   **May 2023 – Present**

Seattle, WA

- Led and architected the development of the first wave of EX AI/LLM-powered applications, including employee feedback summarization and personalized manager action recommendations.
- Worked closely with ML platform team at Qualtrics to scale out AI features to handle organizations of up to 5,000 concurrent users, using a mixture of 3rd party and fine-tuned LLMs.

Senior Software Engineer, Qualtrics   **May 2021 – May 2023**

Seattle, WA

- Functioned as the tech lead for the EX dashboard/widgets team of 6 engineers.
- Designed the migration plan for rewriting the existing EX dashboard frontend from legacy AngularJS code to React, along with the migration of all complex logic from the frontend to a new Node.js-based backend data fetching middleware.
- Closely collaborated with platform teams to develop the React-based dashboard SDK used by EX and other product teams.
- Responsible for significant performance improvements (96-98%) in several of the migrated frontends.

Software Engineer II, Qualtrics   **May 2019 – May 2021**

Seattle, WA

- Developed a new product for analytics across product lines (i.e. EX/CX correlations) via a dynamic Apache Spark ETL pipeline that enables arbitrary, user-defined transformations across datasets.
- Built and architected the React-based data modeling frontend, Spark-based transformation pipeline, and a Java/Spring Boot-based middleware API for scheduling and triggering transformation jobs.
- Served as the tech lead for the new team formed around this project and reviewed all code that went into the effort.

Software Engineer, Qualtrics   **September 2017 – May 2019**

Seattle, WA

- Helped deliver the Employee Lifecycle XM product offering to enable companies to measure their employees' engagement at every stage of the employment lifecycle.
- Worked on the full-stack with JavaScript, Java, and PHP on various EX products in the Qualtrics XM platform.

PROJECTS

Bartender's Manual   **Feb 2020 – Present**

A web and mobile application for tracking what cocktail ingredients you own and recommending cocktails for you to make. Currently at 2.3K yearly active users and growing.

- Built the application end-to-end using React/Next.js for the web application, Express/GraphQL for the backend/API layer, Jetpack Compose for the Android application, and Swift UI for the iOS applicaiton.
- Created an intricate hierarchical database of cocktails and ingredients with recipes for nearly a thousand cocktails.
- Developed algorithms for vector-based cocktail recommendation and hierarchical ingredient substitution.

EDUCATION

University of California, Los Angeles   **2013 – 2017**

B.S. Computer Science

- Relevant coursework: data structures, algorithms, computer graphics, mathematical modeling, computer architecture, assembly languages, software construction, digital logic design, and Unity game design.

SKILLS

- **Languages**: TypeScript, JavaScript, Java, Python, Kotlin, HTML, CSS
- **Frameworks and Technologies**: React, Node.js, Express, LangChain/LangGraph, Spring Boot, Jetpack Compose