

# 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

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### Staff Software Engineer, Qualtrics

May 2023 – Present

Seattle, WA

- Led and architected the development of the first wave of EX (Employee Experience) 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

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### 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 application.
- 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

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### 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

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