

# Khush Makadia

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## EDUCATION

### University of Illinois at Urbana-Champaign

GPA: 3.92/4.00

*Master of Science in Computer Science*

*August 2022 – May 2026*

**Relevant Coursework:** Algorithms, Data Structures, Distributed Systems, Artificial Intelligence, Database Systems, System & Network Programming, Programming Languages & Compilers, Probability & Statistics, Linear Algebra

## EXPERIENCE

### Costco

Chicago, IL

*Software Engineer Intern*

*June 2024 – Present*

- Replacing a manual release tracking spreadsheet with 500+ feature entries by automating numerous build and deployment tasks for the WMS team with Azure Pipelines.
- Optimizing Costco's WMS feature deployment for 20+ large distribution centers by planning and restructuring the team's development flow.

### Rovier

Champaign, IL

*Founding Engineer*

*June 2023 - Present*

- Reducing operation costs by 30% for foodservice industry buyers and suppliers by harnessing Graph Theory optimization algorithms to streamline supply chain processes.
- Employing a combination of AWS, NextJS, PostgreSQL, NestJS, and other technologies to develop 4 dashboards.
- Analyzed user research from 60+ clients across 3 states to develop and design Rovier's multifaceted infrastructure from the ground up with cross-functional teams.

### The American Marketing Association

Chicago, IL

*Software Development Intern*

*January 2023 – June 2023*

- Provided real-time insights into company operations for 300+ AMA employees by developing an internal full-stack platform utilizing AWS and GraphQL.
- Increased data fetching speeds by 50% by migrating the codebase from Apollo to URQL and integrating in-built caching and offline loading capabilities.
- Enhanced compile times by 30x in comparison to React by creating a front-end that exploited Vite's Hot Module Reloading.

## PROJECTS

### Parivartan | Next, SQL, tRPC, Typescript, Prisma, ChakraUI

*January 2023 – July 2023*

- Displayed comprehensive facility and amenity information for over 20,000 Indian pre-schools in Uttarakhand by creating Parivartan, a NextJS and PostgreSQL data visualization tool.
- Reduced fatal error rates by 40% and enforced type-safe data retrieval by writing SQL queries that gathered aggregated pre-school data with Prisma.

### CCSTutoring | Next, Node, Typescript, Firebase, NextAuth, MaterialUI

*December 2021 – November 2022*

- Replaced in-person tutoring for the high school CS tutoring system that encompassed 500+ students using a NextJS and Firebase full-stack forum.
- Optimized load speeds by 60% and trimmed the build size by 40% by applying Next server-side functions and components.

## CAMPUS INVOLVEMENT

### Hack4Impact UIUC

Champaign, IL

*Co-Director*

*September 2022 – Present*

- Leading a highly specialized organization of 40+ members to create robust full-stack software solutions for nonprofits around the world to optimize their operations and expand their missions.
- Previously a Product Manager, leading 2 projects for Operation Code and Akama Fund, and started as a Software Developer, working on Meraki Foundation and Brink.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL, JavaScript, Typescript, HTML/CSS, YAML, C#, Cypher, Ocaml

**Developer Tools:** Git, Docker, AWS, Azure, Google Cloud Platform, Firebase, MongoDB, PostgreSQL, Vercel

**Libraries & Frameworks:** React, Node/Express, Next, GraphQL, T3, .NET, Vite, Numpy, Matplotlib, Pandas, ChakraUI