

# Khush Makadia

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## EDUCATION

### University of Illinois at Urbana-Champaign

Graduation Date: May 2025

B.S. in Computer Science

GPA: 3.93/4.00

**Coursework:** Algorithms, Data Structures, Database Systems, System Programming, Discrete Structures, Numerical Methods, Linear Algebra, Software Design Lab, Computer Architecture, Intro to Computer Science I & II.

## PROFESSIONAL EXPERIENCE

### Rovier

Champaign, IL

Founding Engineer

Jun 2023 – Present

- Slashed operation costs by 30% for foodservice industry buyers and suppliers by harnessing Graph Theory optimization algorithms to streamline supply chain processes.
- 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.
- Employed a combination of AWS, NextJS, PostgreSQL, NestJS, and other technologies to develop 4 client dashboards.

### The American Marketing Association

Chicago, IL

Software Engineering Intern

Jan 2023 – Jun 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.

### Hack4Impact

Champaign, IL

Meraki Foundation, Software Developer

Jan 2023 – Jun 2023

- Displayed comprehensive facility and amenity information for over 20,000 Indian pre-schools 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.

Brink, Software Developer

Sep 2022 – Jan 2023

- Guided disabled U.S. citizens across 50 states through the voting process with the [Brink Web App](#), which renders election and polling data through a user-friendly and highly accessible interface.
- Utilized the Google Civic API to obtain nearby polling locations tailored to each user's location, while implementing pagination, which reduced lag times by 40%.
- Combined Chakra-UI's accessible UI components with Contentful CMS and Google Civic API to populate site text and data.

## PROJECTS

### CCSTutoring

Next | Node | React | Firebase | NextAuth

- Replaced in-person tutoring for the high school CS tutoring system that encompassed 500+ students using a NextJS and Firebase full-stack forum, which hosted 150+ tutoring sessions.
- Optimized load speeds by 60% and trimmed the build size by 40% by applying Next server-side functions and components

### Trucycle

Java | Android Studio | Firebase | Google Auth

- Addressed improper recycling for a community of over 50,000 residents by educating users on recyclability ratings of products and corresponding recycling locations.
- Leveraged Google Maps and a series of APIs that take a product's barcode and return recycling information and locations.

## SKILLS

**Programming Languages and Libraries:** Javascript, Typescript, Java, C++, Python, SQL, React, Numpy, Auth0, Express, Apollo.

**Tools and Frameworks:** React, Next, NestJS, Node, T3, Docker, AWS, Git, Firebase, MongoDB, PostgreSQL, JetBrains, Vite, VSCode, Vercel.