

# KRUSHAY BHAVSAR

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## EDUCATION

**Georgia Institute of Technology** – GPA: 4.0/4.0, Faculty Honors

**Atlanta, GA**

*B.S. in Computer Science / Concentration in Information Internetworks & Intelligence*

May 2026

- **Relevant Coursework:** Design & Analysis of Algorithms, Computer Organization & Programming, Data Structures & Algorithms, Discrete Mathematics, Objects and Design, Linear Algebra
- **Clubs and Activities:** GT Experimental Rocketry, Trading Club at GT, GreyHat Club, Startup Exchange, Intramural Soccer

## SKILLS

**Programming/Markup Languages:** TypeScript, JavaScript, Python, Java, SQL, R, MATLAB, C, C#, HTML, CSS, SCSS, XML

**Frameworks/Libraries:** React.js, React Native, Node.js, Express.js, Django, Flask, GraphQL, Redux, Pandas, NumPy, TensorFlow

**Tools:** PostgreSQL, Amazon Web Services (Cognito, EC2, ECS, ECR, S3, Lambda), Firebase, Git, Jira, Android Studio, Unity

## EXPERIENCE

**Vertice AI, Financial Technology Startup**

**Durham, NC**

*Associate Software Engineer Intern*

Jun 2024 – Aug 2024

- Developed an analytics solution using Python, PostgreSQL, Express.js, React.js, and AWS technologies to assist credit unions in tracking growth/engagement and identifying marketing opportunities for specific members
- Automated the generation of transaction models by implementing a component-based system with vectorized full-text search to analyze member behaviors, resulting in a 40% reduction in code volume and a 50% improvement in runtime efficiency
- Devised predictive models to efficiently analyze \$5 billion+ in member transactions, track spending trends, and categorize members for partnered credit unions to know, grow, and measure their overall membership

**Jane Street Capital, Quantitative Trading Firm**

**New York, NY**

*Academy of Math and Programming Intern*

Jul 2023 – Aug 2023

- Designed and implemented algorithmic solutions to complex problems in game theory, graph theory, and linguistics using Python, enhancing skills in data analysis, decision-making under uncertainty, and quantitative trading strategies
- Achieved 7th place in Jane Street's Electronic Trading Challenge (ETC) by developing high-frequency trading algorithms in a competitive 6-hour trading session, resulting in one of the highest Profit-and-Loss (P&L) scores among 80+ participants
- Collaborated with International Math Olympians to complete intensive coursework in combinatorics and number theory

**Cisco Systems, Technology Cooperation**

**New York, NY**

*Summer Extern*

Jul 2022

- Participated in a highly selective program (~10% out of 900+ applicants) to gain industry experience in IoT and cybersecurity
- Formulated and presented innovative solutions for mass transit challenges using Cisco technologies such as Meraki MR56 Camera systems, LoRaWAN, and CyberVision, resulting in increased rail ridership and enhanced rider safety
- Achieved NYC Extern of the Day by excelling in workshops, shadowing company executives, and demonstrating leadership and technical skills in IoT, AI/ML, and Meraki Solutions, among various other networking technologies

**Mentor Labs, Harvard Technology Startup** (acquired)

**Boston, MA**

*Senior Software Developer*

Aug 2021 – Apr 2022

- Developed a full-stack application using the PERN (PostgreSQL, Express.js, React.js, Node.js) stack to assist thousands of high school students in the college admissions process via a virtual guidance counselor and summer program recommendations
- Implemented a matching algorithm for scholarship/summer programs and leveraged React.js to create a seamless UX on the landing page, dashboard, scholarships, and summer programs pages, resulting in a 25% increase in user retention
- Contributed to a cross-functional development team while following the Agile Scrum methodology and establishing weekly team goals/timelines, leading to a global user base of over 10,000 students and incubation at the Harvard Innovation Labs

## PROJECTS

**Munch**

<https://joinmunch.app>

*React Native, Redux, AWS (Cognito, EC2, S3), PostgreSQL, GraphQL, TypeScript, React.js, Firebase*

Oct 2023 – Present

- A social culinary hub for college students to buy or sell homecooked meals and discover recipes created by other students in localized areas around campus, gaining 200+ waitlist signups within 24 hours of launch
- Developed a cross-platform mobile application with cached state management, scalable persistent data storage, and a gateway authentication layer using relational database systems, a Prisma object-relational mapper, and AWS services

**Tutor Connect**

<https://tutorconnect.sboe.org>

*React.js, Firebase, TypeScript, JavaScript, HTML, CSS*

Jul 2022 – Sep 2022

- A cloud-based networking platform to connect students with verified tutors within the Secaucus Board of Education
- Designed and implemented a site with a student dashboard (for filtering, searching, and connecting with listed tutors), a tutor dashboard (for managing tutor listings and connections), and an admin dashboard (to allow invited administrators to manage user permissions, verify tutors, and track tutoring progress) used by 500+ students and 60+ verified tutors daily

## CERTIFICATIONS & AWARDS

**Certifications:** Introduction to IoT (issued by Cisco), Introduction to Cybersecurity (issued by Cisco), Practical Introduction to Quantum-Safe Cryptography (issued by IBM), Basics of Quantum Information (issued by IBM)

**Honors/Awards:** 1st Place SimpliHacks Hackathon (international), 1st Place High Tech Hacks Hackathon (international), 1st place Kiss Institute of Practical Robotics (KIPR) Botball Competition (national), Valedictorian of Secaucus High School