

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

Dec 2026

- **Relevant Coursework:** Data Structures & Algorithms, Discrete Mathematics, Objects and Design, Linear Algebra
- **Clubs and Activities:** Startup Exchange, Intramural Soccer, GreyHat Club, Grand Challenges Living Learning Community

SKILLS

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

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

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

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