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 2024 – Aug 2024
- 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