

# KRUSHAY BHAVSAR

New York City Metropolitan Area | (201) 375-5770 | [krushaybhavsar@gmail.com](mailto:krushaybhavsar@gmail.com) | U.S. Citizen  
Portfolio: [krushaybhavsar.com](https://krushaybhavsar.com) | LinkedIn: [linkedin.com/in/krushaybhavsar](https://linkedin.com/in/krushaybhavsar) | GitHub: [github.com/krushaybhavsar](https://github.com/krushaybhavsar)

## 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, Java Spring, Django, Flask, GraphQL, Redux, Pandas, NumPy  
**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, React.js, Express.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 over \$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 **Java Spring, PostgreSQL, React.js, Express.js, and AWS** services 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

**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

**Signslate** <https://github.com/krushaybhavsar/signslate>  
*Python, Flask, React.js, JavaScript, HTML, CSS* Jun 2021

- A real-time translation web application that translates American Sign Language (ASL) to English with a custom-trained machine learning model and translates English to ASL using web-scraped videos and a Flask backend
- Led the project to win 1st place overall in the international Simplihacks Hackathon, 1st place in the Diversity and Inclusion Category of the international High Tech Hacks Hackathon, and received the national Wolfram Alpha Award

## CERTIFICATIONS & AWARDS

**Certifications/Courses:** Introduction to IoT (Cisco), Introduction to Cybersecurity (Cisco), Practical Introduction to Quantum-Safe Cryptography (IBM), Basics of Quantum Information (IBM), CodePath Advanced Technical Interview Prep  
**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