

# KRUSHAY BHAVSAR

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## EDUCATION

**Georgia Institute of Technology** – GPA: 4.0/4.0, Faculty Honors **Atlanta, GA**  
May 2026  
*B.S. in Computer Science / Concentration in Information Internetworks & Intelligence*

- **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), PowerShell, Linux, Firebase, Git, Android Studio

## EXPERIENCE

**Vertice AI, Financial Technology Startup** **Durham, NC**  
Jun 2024 – Aug 2024  
*Associate Software Engineer Intern*

- Developed an analytics solution using **React.js, Python, PostgreSQL, 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**  
Jul 2023 – Aug 2023  
*Academy of Math and Programming Intern*

- 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**

**Mentor Labs, Harvard Technology Startup** (acquired) **Boston, MA**  
Aug 2021 – Apr 2022  
*Senior Software Developer*

- Developed a full-stack application using **React.js, Express.js, Java Spring, PostgreSQL, 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

**Munch** <https://joinmunch.app>  
Oct 2023 – Jan 2024  
*React.js, TypeScript, JavaScript, HTML, CSS, Redux, React Native, AWS (Cognito, EC2, S3), PostgreSQL*

- 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, which gained over 200 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>  
Jul 2022 – Sep 2022  
*React.js, TypeScript, JavaScript, HTML, CSS, Firebase*

- 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

**Tileshift** <https://tileshiftgame.com>  
Dec 2021 – Jan 2022  
*React.js, TypeScript, JavaScript, HTML, CSS, Firebase*

- A daily web-based word puzzle game in which player vertically align lettered tiles to spell words with limited moves
- Developed a responsive site that automatically generates a unique puzzle daily and has gained over 125,000 hits on Reddit with about 410 players across 3 different continents and an average engagement time of 7 minutes and 40 seconds per user

## 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