**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:** 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 |
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# **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 |
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# **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 |
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# **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](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 |
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# **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 |
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