**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 Cybersecurity & Information Internetworks*  May 2026   * **Relevant Coursework:** Design& Analysis of Algorithms, Computer Organization & Programming, Data Structures & Algorithms, Discrete Mathematics, Objects and Design, Linear Algebra * **Clubs and Activities:** GreyHat Cybersecurity Club, GT Experimental Rocketry, Trading Club at GT, Startup Exchange, 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, Java Spring, Django, Flask, GraphQL, Redux, Pandas, NumPy **Tools:** Docker,PostgreSQL, Amazon Web Services, PowerShell, Linux, 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, 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 **Cybersecurity and IoT** * 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 |
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# **PROJECTS**

| **Privalink**  <https://github.com/krushaybhavsar/privalink> *React.js, TypeScript, Express.js, AWS (RDS, EC2, S3, Cognito), Cryptography* Aug 2024 – *Present*   * Implemented a secure file encryption and transfer system using elliptic curve cryptography (ECC) to ensure the confidentiality of sensitive data, with private keys encrypted client-side for zero-knowledge security * Developed customizable self-destructing links for file sharing, utilizing AWS infrastructure (S3, EC2, RDS) and cryptographic processes to enable secure, temporary access to encrypted files without exposing key information   **Attitude Determination and Control System (ADCS), Mission Control Software**  *Docker, Embedded C, Python, SQLite, Grafana* Aug 2024 – *Present*   * Implemented a Controller Area Network (CAN) Protocol using the STM32H7 hardware abstraction layer to ensure high-speed communication with flight systems as a core member of the Avionics Team at Georgia Tech Experimental Rocketry (GTXR) Club * Developed low-latency backend systems integrated with Featherweight altimeters for real-time rocket telemetry analysis, along with a data visualization dashboard for Mission Control as part of the Ground Systems Team |
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# **CERTIFICATIONS & AWARDS**

| **Certifications/Courses:** Introduction to Cybersecurity (Cisco), Practical Introduction to Quantum-Safe Cryptography (IBM), Introduction to IoT (Cisco), 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 |
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