

# Mihir Balsara

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## EDUCATION

**Georgia Institute of Technology**  
*Candidate for Bachelor's in Computer Science*

Atlanta, GA  
Aug. 2023 – Dec. 2026

## TECHNICAL SKILLS AND AWARDS

**Languages:** Java, Python, SQL (Postgres), PHP, JavaScript, HTML/CSS, C#  
**Frameworks:** React, Node.js, JUnit, WordPress  
**Developer Tools:** Jenkins, Git, Docker, Amazon Web Services, VS Code  
**Operating Systems:** Windows, MacOS, Debian Linux  
**Libraries:** pandas, NumPy, Matplotlib, Seaborn, SciPi  
**Awards:** Xerox Award for Innovation and Information Technology, Cornell Health RX Hackathon Winner, CDAIT IOT Challenge Finalist

## EXPERIENCE

**Cybersecurity Research Intern** | *C, Java, Jenkins, Nginx, Python, docker, Git* May 2024 – Present  
*Georgia Tech Research Institute* Atlanta, GA

- Competing in the DARPA AI Cyber Challenge (AlxCC) with Team Atlanta (SSLab, GTRI, KAIST Hacking Lab, Samsung Research Korea, etc.)
- Qualified for AlxCC Finals at DEFCON 32
- Developed C-based initial corpus generator and mutators to semantically adapt current Cyber Reasoning System to application-specific infrastructure

**Software Developer Intern** | *WordPress, PHP, SQL, CMS* Apr. 2023 – May 2023  
*RK Centers* Burlington, MA

- Designed and developed a custom **CMS** platform for streamlined property and snow bidding processes
- Built a secure login and user-friendly property selection portal using **WordPress** and **PHP**
- Optimized **MySQL** database structure to ensure seamless integration with the new site framework
- Increased client-server interaction efficiency by **20%** resulting in faster loading times and improved user experience

**Research Assistant** | *Python, pandas, Matplotlib, Seaborn, SciPy* Aug. 2021 – Jul. 2022  
*Boston College* Chestnut Hill, MA

- Conducted research on the impact of online vs. offline education on student performance in mathematics
- Utilized data visualization tools to create compelling visuals that highlighted the differences in students' math performance reports
- Published research findings in peer-reviewed Boston College journal

**Data Engineer** | *Python, pandas, Matplotlib* Jun. 2021 - Aug. 2021  
*Russian School of Mathematics* Lexington, MA

- Mined student score and report data from RSM's database to identify trends in student performance
- Created an efficient algorithm to process and analyze 2 million student data points
- Leveraged **pandas** library to clean and prepare 2 million student data points for analysis

## PROJECTS

**Spotify Wrapped** | *Android Studio, Java, Gradle, Firebase, GitHub* Feb. 2024 – Apr. 2024

- Developed a mobile app with Firebase authentication for login and account management
- Integrated Spotify API to generate personalized music recommendations
- Developed a Community Page where users can explore other accounts, view top artists, and share top songs

**1Record - Cornell Health RX Winner** | *Python, MongoDB, ReactJS* Mar. 2024

- Developed software using LLMs to extract context from Electronic Health Records, sort patients by similarity, and predict rare condition symptoms for tailored treatments.

**Omex Development** | *JavaScript, Node.js, MongoDB, Docker, Jenkins* Jul. 2021 – Present

- Designed and developed two applications for the Discord platform, reaching a user base of 346,075
- Automated application deployments using Docker containers
- Implemented a Jenkins pipeline for continuous integration and delivery minimizing update downtime to under 5 minutes

**Silicon Studios** | *Lua, Blender, Roblox Studio* Jul. 2018 – Present

- Managed development of the popular Roblox game, "Drive a Tesla," achieving over 6 million visits
- Managed a team of builders and developers to create functional game assets
- Recipient of the **Sparkletime Crown of O's** virtual award for exceeding 100,000+ monthly active users