

Mihir Balsara

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science - GPA: 3.78

Atlanta, GA

Expected May 2026

EXPERIENCE

Cybersecurity Research Intern | C, Java, Jenkins, Nginx, Python, docker, Git

May 2024 – Present

Georgia Tech Research Institute

Atlanta, GA

- Collaborating with Team Atlanta (SSLab, GTRI, KAIST) under Prof. Taesoo Kim for DARPA AIxCC Finals
- Qualified for AIxCC Finals at DEFCON 32 by implementing innovative cybersecurity solutions
- Developed a C-based corpus generator and mutators to adapt Cyber Reasoning Systems for specific infrastructures

Research Assistant | Python, pandas, Matplotlib, Seaborn, SciPy

Aug. 2022 – Jul. 2023

Lincoln Labs

Lexington, MA

- Conducted data-driven research on online vs. offline education impacts on mathematics performance
- Created detailed visualizations using Matplotlib and Seaborn to highlight performance trends
- Published findings in a peer-reviewed journal, contributing to educational data analysis literature

Data Engineer | Python, pandas, Matplotlib

Jun. 2022 – Aug. 2022

Russian School of Mathematics

Lexington, MA

- Processed and analyzed over 2 million student records to identify performance trends using Python and pandas
- Designed an optimized data-cleaning pipeline that improved processing efficiency by 30%
- Delivered actionable insights through detailed reports and visualizations

Software Developer Intern | WordPress, PHP, MySQL

Apr. 2021 – Aug. 2021

RK Centers

Burlington, MA

- Built a secure login portal and streamlined property selection processes using WordPress and PHP
- Optimized MySQL database structures to enhance integration with new frameworks
- Improved client-server interaction efficiency by 20%, reducing load times significantly

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

AWARDS

CDAIT IOT Challenge Winner

May 2024

Developed food deliver robot prototype and awarded \$15,000 in funding

Cornell Health RX Winner

Mar. 2024

Awarded \$3,000 cash prize for top placement in Cornell hosted hackathon

Sparkletime Crown of O's

Jul. 2024

Virtual Roblox award achieved for receiving 100,000+ monthly active users in Drive a Tesla

Xerox Award for Innovation and Information Technology

Jun. 2022

Book Award for innovation leadership, pursuing tech opportunities, and guiding peers in creative problem-solving

TECHNICAL SKILLS

Languages: Python, C#, Java, C++, JavaScript, C, TypeScript, Kotlin, SQL (Postgres), PHP, HTML/CSS

Technologies: React, Node.js, JUnit, WordPress, Jenkins, Gradle, Git, Docker, Unity, Unreal, Debuggers, MongoDB, AWS, VS Code, Windows, MacOS, Debian Linux, NumPy, Matplotlib, Seaborn, SciPi, TensorFlow, PyTorch

Concepts: Optimization, Debugging, Communication, Software Engineering, Abstraction, Documentation, Agile, Performance Profiling/Benchmarking, Data-Driven Systems, Cross-Platform Development