

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, 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.)
- Develop **fuzzing** tools to find vulnerabilities within Jenkins source code
- Develop **automated** tools utilizing fuzzing and **machine learning** to automate vulnerability detection and patching

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

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 downtime during updates to less than 10 minutes

Silicon Studios | Lua, Blender, Roblox Studio

Jul. 2018 – Present

- Managed development of the popular Roblox game, "Drive a Tesla," achieving over 5 million visits
- Managed a team of builders and developers to create functional game assets
- Recipient of the **Adurite Crown of O's** virtual award for exceeding 10,000+ monthly active users