Mihir Balsara

617-642-4806 | mihirnbalsara@gmail.com | LinkedIn | GitHub | Portfolio

EDUCATION

Georgia Institute of Technology   Atlanta, GA
Candidate for Bachelor's in Computer Science - GPA: 4.0   *Aug. 2023 – May 2027*

EXPERIENCE

Avionics Software Engineer | *Python, C++*   Sep. 2023 – Present
Georgia Tech Experimental Rocketry   *Atlanta, GA*
- Developed a Controller Area Network (CAN) module to communicate with ground and rocket

Software Developer Internship | *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 on the impact of online vs. offline education on student performance in mathematics in a peer-reviewed journal at Boston College
- Ilina O, Antonyan S, Venkatesh R, Mirny A, Lepsky O, Brodskaia J, **Balsara M**, Keyhan K, Mylnikov A, Quackenbush A, Tarlie J, Tyutyunik A, & Ludlow L. In-person vs. online teaching and learning: Teachers and students as co-researchers. Paper presented at the American Educational Research Association annual meeting. Chicago, Il. April 15, 2023.

Data Engineer   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

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

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