Misbah Imtiaz

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Education

University of Texas at Austin   Aug 2020 – May 2024
Bachelor of Science in Computer Science   **Cumulative GPA:** 3.91
Coursework: Data Structures, Discrete Math, Computer Architecture, Operating Systems, Algorithms, Compilers, Machine Learning, Mobile Development, Competitive Programming, Ethics in CS, Intro to Programming in Java and C++

Experience

Nordstrom | Software Engineering Intern   Jan 2023 – Apr 2023
- Placed on the Management Data Analytics Team

IBM | Backend Engineering Intern   Aug 2022 – Dec 2022
- Developed on the IBM Spectrum Fusion team building storage infrastructure for containerized applications on **OpenShift**
- Refashioned the API layer using **Golang** and **Swagger API** handling incoming defects on a ticket based development system
- Created a **Python** script to analyze **50+** backend files to eliminate response disparities returned to the Fusion UI

Paycom | Software Development Intern   May 2022 – Aug 2022
RealTimeNotify
- Launched real time notification service in **Node** and **Express** for monitoring **10,000+** daily payroll transactions
- Architected **REST API** using websockets to eliminate database polling to **MySQL server** reducing data bandwidth usage by ∼**85%**
- Tested application endpoints using **Postman** and presented demo to the CIO and **120+** developers

Codeathon
- Designed a time tracking and reporting tool using **React** styled with **Bootstrap** for organizing a team's Agile sprints in JIRA
- Handled task logging and creation with CRUD operations in **C#** and **MySQL** placing **2nd** at company hackathon

Skills

Languages	Java | Python | C/C++ | Golang | JavaScript | SQL | HTML/CSS
Frameworks/Libraries	Flask | React | Node | Express | OpenCV | Numpy | Selenium | JavaFX
Developer Tools	Git | AWS | Docker | PostgreSQL | MySQL | Postman | Heroku | QEMU

Projects

John Cena! | Website ML Application   Aug 2022
- Adapted pre-trained facial recognition model in **OpenCV** to play a theme song when a person enters a room
- Built **React** and **Flask** website to change user songs and headshots saved using **PostgreSQL** and **AWS S3**

File Storage | Low-Level Design   Apr 2022
- Designed EXT2 file system for the Linux kernel in **C++** and **x86-32 Assembly** for the storage and retrieval of data
- Implemented memory caching with a least frequently used eviction policy reducing disk read times by **83%**

Life on Mars | Discord Bot   Jul 2021
- Created Discord bot in **Python** to provide daily insight on the life on Mars hosted with **Heroku**
- Extracted **100+** articles and terrain photos using **Selenium** and **NASA API** displaying results based on rover and capture date

Cubic Connections | Desktop Game   May 2021
- Built connect four game in multi-dimensional space with **3-D graphics** visualized using **JavaFX**
- Crafted traversal algorithm using **DFS** and **memoization** for detecting a winner in linear time tested with **JUnit 5**

Competitions

Capture the Flag | Information and Systems Security Society   Aug 2020 – Jan 2021
- Employed terminal commands and web exploits to uncover flags
- Achieved 1st RobopocalypseCTF, 2nd StonksCTF, 2nd SpookyCTF, 4th SecurityCTF

Policy Debate | State and National Debate   Mar 2019 – Jun 2020
- Formulated and defended legislative solutions towards complex domestic/international affairs
- Placed 3rd out of 64 teams at the 6A UIL Texas State Tournament
- Ranked 14th out of 190 teams at the National Speech and Debate Tournament