Faiz Irshad

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Education

Stony Brook University — Stony Brook, NY
Bachelor of Science in Computer Science — *Aug. 2021 – Dec. 2024*
Cumulative GPA: 3.63/4.00

Relevant Coursework: Data Structures and Algorithms, Software Development, Programming Abstractions, Systems Fundamentals I and II, Object-Oriented Programming, Discrete Math, Statistics

Technical Skills

Languages: Java, Python, C, C++, SQL, JavaScript, HTML, CSS, MIPS Assembly
Frameworks and Tools: React, Django, Git, AWS, VS Code, PyCharm, IntelliJ, Eclipse, Adobe CC

Experience

Campus IT Technician — September 2021 – Present
Stony Brook University — *Stony Brook, NY*

- Diagnose and resolve a broad range of software and hardware issues across Windows and macOS platforms for both faculty and students, working in collaboration with team members
- Provide rapid on-site troubleshooting and manage inventory for devices across 25+ campus locations to minimize disruptions to university activities
- Assess and offer immediate solutions for various technical issues over calls via the university help desk, maintaining a first-call resolution rate above 90%

Projects

Market News Feed | *Django, React, MySQL, CSS*

- Developed a full-stack web application with Django and React that aggregates and displays the latest financial news as a tool for informed stock trading
- Featured a RESTful API with endpoints for user management and news article extraction using stock news APIs
- Enabled users to personalize their news feed through customizable stock watchlists and stored user preferences in a MySQL database

NBA Evolution Visualizer | *Node.js, React, Python, DynamoDB, CSS*

- Developed an interactive web app with React and Node.js to visualize trends across 72 NBA seasons using a diverse set of statistics
- Scraped and processed extensive team metrics using Python libraries such as pandas and BeautifulSoup
- Integrated with AWS Lambda and DynamoDB for seamless data storage and retrieval

Commute Companion | *Python*

- Created a Python script utilizing Google Routes and Open-Meteo APIs to provide users with daily commute ETA and weather updates via text message
- Configured and deployed the script for automated execution using AWS Lambda and EventBridge, and integrated Twilio for direct SMS message notifications

Dynamic Memory Allocator | *C*

- Implemented a fully functional dynamic memory allocator including custom malloc, free, realloc, and memalign functions
- Incorporated memory management strategies such as segregated free lists, quick lists, block coalescing/splitting, and footer optimization to minimize fragmentation