MALIK BAKER

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EDUCATION

B.A. Computer Science, Boston University   Expected May 2024

Relevant Courses: Computer Systems, Data Structures and Algorithms, Software Engineering, Analysis of Algorithms, Distributed Systems, Full-Stack Development, Systems Programming

SKILLS

Languages	Python, TypeScript, JavaScript, HTML, CSS, Java, Bash, PowerShell, Latex
Frameworks & Libraries	React, Node.js, Firebase, Tailwind, Flask, Spring Boot, Next.js, Express
Technologies & Tools	Linux, Git, ServiceNow, Jira, Docker, MongoDB, MySQL, PostgreSQL

EXPERIENCE

Software Engineer Intern   Nov 2023 - Present
Hariri Institute for Computing: Software and Application Innovation Lab   *Boston, MA*

- Developing a user-interactive platform in React, to journalism outlets in analyzing media bias in their articles covering the city of Boston.
- Spearheaded the implementation of authentication and email microservices by integrating 3rd party libraries and APIs into the application architecture.
- Constructed complex queries in GraphQL to facilitate end to end type-safe data queries in the application with GraphQL APIs.

I.T. Support Specialist   Oct 2021 - Dec 2023
Boston University   *Boston, MA*

- Evaluated thousands of tickets monthly in ServiceNow and collaborate with senior engineers and team leads to maintain efficient operations within the BU Information Services and Technology network.
- Performed troubleshooting such as running onboard diagnostics, hardware evaluation, and data removal on end-of-life Mac and Windows machines to ensure safe termination and disposal of departmental assets.
- Operated imaging servers to bootstrap and deploy hundreds of new machines quarterly with Windows or macOS, along with proprietary device management software.

Production Engineering Fellow   May 2022 - Aug 2022
Major League Hacking Fellowship   *Springfield, MO (Remote)*

- Engineered a production environment for running a web application using a Virtual Private Server, with a connected MySQL database, and a secure web server with containers using Docker Compose.
- Analyzed resource management metrics within several Docker containers through Prometheus monitoring and visualized collected data with Grafana dashboards.
- Automated unit testing and deployment using Bash scripts along with GitHub Actions CI/CD workflows to minimize downtimes by 50% when administering updates.

PROJECTS

dibs! — *React, Tailwind, Firebase, JavaScript*
A project led by four students at Boston University with the goal of making affordable furniture more accessible.

Personal Website — *Next.js, React, JavaScript*
Website created as a simple way for people to learn about my work, my interests and how to contact me.

Sched-U-Bowl — *Java, Spring Boot, MongoDB, JavaScript*
User-interactive full-stack web application designed as an efficient and secure reservation system for bowling alleys.