

Mohamed Hamza

Software Engineer · Full Stack Developer

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Education

- Sep 2015 – May 2019 **B.S. Computer Science**, Binghamton University, Binghamton, NY.
Major GPA – 3.84/4.0, Overall GPA – 3.808/4.0
- Thomas J. Watson School of Engineering and Applied Sciences
 - Dean's List: Sep 2015 - May 2019
 - Club Soccer

Experience

- Aug 2021 – Current **Software Engineer**, IBM (CIO Hybrid Cloud), Armonk, NY.
- Worked on integral components of an internal PaaS, powered by OpenShift that serves over nine thousand, highly available deployed applications.
 - Created Kubernetes-native components and microservices (Golang) to assist in the orchestration of user workloads.
 - Designed and developed single-page web console (React/NodeJS) to interact with OpenShift resources across over a dozen clusters, interfacing with microservices, databases, and message queues.
- June 2019 – Aug 2021 **Software Engineer**, IBM (Network Engineering), Armonk, NY.
- Extended and improved the IBM BlueFringe Portal, a web portal that allows IBM teams to establish and manage connections between the private, internal IBM intranet and their public IBM Cloud account
 - Optimized and modularized portal through the introduction of Angular modularization, lazy loading, and NgRx/store (state management like Redux)
 - Improved deployment times using Docker caching (50min → 10-15min)
 - Cleaned app design using IBM Carbon Design, improving user experience greatly and streamlining future development
 - Helped introduce and establish a testing environment using Cypress
 - Improved team workflow and collaboration by introducing and encouraging Git commit message guidelines, code linting and formatting, and automatic changelog generation
- April 2018 – May 2019 **Software Development Intern**, IBM (Network Engineering), Armonk, NY.
- Extended the BlueFringe Analytics Portal, a dashboard for monitoring and tracking aspects of the IBM network
 - Designed and developed dashboards for ASA logs and Avi Network logs using Angular and IBM Carbon Design to create a dynamic and responsive UI that reloads live data in near real-time
 - Developed back-end server using Node.js, Express, and MongoDB to fetch network summary reports, organize and format data, and send to front-end
- June 2017 – March 2018 **Software Development Intern**, IBM (CIO Hybrid Cloud), Armonk, NY.

Skills

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| Languages | JavaScript/TypeScript, Go, Python, Java, C/C++, Bash |
| Web & DB | HTML5, CSS/Sass, React/Redux, Angular, SQL, MongoDB, Redis, RabbitMQ, RxJS |
| Cloud | Kubernetes, OpenShift, Docker, IBM Cloud |
| Misc. | Git, Linux, Argo, Agile, Jira, Jenkins, Trello, Cypress, ZenHub, GitOps, L ^A T _E X |