

# 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

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## Experience

- Aug 2021 – Current **Software Engineer**, IBM (CIO Hybrid Cloud), Armonk, NY.
- Worked on integral components of an internal PaaS, powered by OpenShift that currently 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 a dozen clusters, interfacing with various 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 various 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

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## Skills

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| <b>Languages</b>    | JavaScript/TypeScript, Go, Python, Java, C/C++, Bash   |
| <b>Web &amp; DB</b> | HTML5, CSS/Sass, React/Redux, Angular, SQL (Postgres), MongoDB, Redis, RabbitMQ, RxJS          |
| <b>Cloud</b>        | Kubernetes, OpenShift, Docker, IBM Cloud   |
| <b>Misc.</b>        | Git, Linux, Argo CI/CD, Agile, Jira, Jenkins, Trello, Cypress, ZenHub, GitOps, $\text{\LaTeX}$ |