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

June 2019 – Present **Software Developer**, *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
- Deployed builds through OpenStack VMs

June 2017 – March 2018 **Software Development Intern**, *IBM (Bluemix)*, Armonk, NY.
- Designed and developed BlueView, a web dashboard for IBM's dedicated Bluemix instance
- Developed front-end using React and Redux to create a dynamic and responsive UI that reloads live data sent from the back-end server
- Developed back-end server using Node.js and Express to collect information from IBM's internal APIs and databases and send formatted data to the front-end
- Created a toolchain to automate deployment to Bluemix by automatically building using code from Github
- Learned agile practices such as daily scrums and iteration planning using Trello

Skills

Languages JavaScript/TypeScript, C/C++, Python, Java, Bash, ZSH, SQL/PostgreSQL
Web & Cloud HTML5, CSS/Sass, React/Redux, MongoDB, Docker, Angular, RxJS
Misc. Tech Git, Linux, Redis, Trello, ZenHub, Jira, Reactive Programming, CI, Cypress, LaTeX