

Omar Elnagdy

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EDUCATION

The City College of New York, CUNY, New York, NY

December 2019

Bachelor of Science in Computer Science

- *Grove School of Engineering*
- Minor: Mathematics

TECHNICAL SKILLS

Programming: Java, Python

Web Development: JavaScript, ReactJS, HTML5, CSS/SCSS, Node.js, Angular, GoLang, NextJS

Database: MySQL, MongoDB, NestJS

Platforms: Mac OS, Windows

Libraries: jQuery, React Bootstrap, Carbon, Material UI, Webpack, Formik

Cloud Platforms: OpenShift, Docker

Testing Tools: Jest, React Testing Library

Other: Concepts in Algorithms & Data Structures, Burp Suite, PostMan

EXPERIENCE

IBM **June 2020 - Present**
Software Engineer Southbury, CT

Full-stack software engineer focused primarily on the front-end and back-end of the IBM cloud-native applications GLUI, the single-entry point to IBM's ledger for all global journal activity, and GUDA, the global application for all IBM departmental activities. Works with testers, POs, IMs, UI/UX designers, and users to enhance IBM's cloud-native journaling and departmental software. Leverages modern front-end technologies, such as React and Angular, and modern back-end technologies such as Node.js and Express, and Java RESTful services using Spring, JDBC, and SQL. Utilizes the IBM DB2 and PostgreSQL relational databases, Docker for containerization, Artifactory for encapsulating all Docker images, and IBM Hybrid Cloud. Check out our Application [GLUI!](#)

IBM **August '19 - June 2020**
Software Engineering Co-op Southbury, CT

Continued the work I finished as an intern, but now as a Co-Op while I was a student at City College of New York. I participated in weekly stand-up meetings relating to the JIRA stories I was assigned. With each story, I assisted the team remotely with various bug fixes and quality assurance testing of the front-end and back-end of the global ledger application.

IBM **May '19 - August '19**
Software Engineering Intern Southbury, CT

At IBM, I worked and collaborated with a diverse team of developers, UX/UI designers, POs, IMs, testers, etc. from around the world in order to transition IBM's global ledger application for all journal activity to a cloud-native solution utilizing React for the front-end, and a variety of technologies for the back-end micro-services, such as SQL, Java Spring, JDBC, k8s for container-orchestration, and Docker for containerization. As a team, we additionally leveraged a host of CI/CD software to develop the application along with Git and GitHub for version control, and Travis for integrated build tests.

FirmConnect **January 2022 – May 2022**
Software Engineer New York, NY

At FirmConnect, a startup company I coded in ReactJS/TypeScript/MongoDb/NextJS/NestJS that implemented a user experience that allowed users to be able to create a consultancy page so that members are encouraged and intrigued to sign up for their class

LAUNCH Math and Science Internship **June 2018 – Present**
Team Coding/Engineering Leader New York, NY

- Teach children about algorithms and coding languages, such as Scratch and Python. Build projects to supplement the curriculum, such as mBots, using Scratch/Arduino to code actions for the robot.

TECHNICAL PROJECTS

Birthday App

October 2021

- Coded an application using React JS and Material UI Framework to display a set of 21 questions recurring one after the other along with custom card components and hidden easter egg features. Check it out [Happy Birthday!](#)

M&C Studios

March 2019

- Coded an application using React JS, Firebase, OMDb API, and Stripe API to create a real-time movie database with functionalities such as a shopping cart and wishlist with future payment providing the full movie. Check it out [M&C Studios](#)

Her Quest (*Hackathon*)

December 2019

- Deployed a Snapchat lens and website using Snapchat lens studio API, React, and Material UI to represent women in particular STEM fields to give them the inspiration to be part of STEM regardless of gender. Check it out [HerQuest](#)

HackCIO (*Hackathon*)

August 2019

- Coded an application using React JS, Watson Services, and a Geolocation API to determine which IBM location is nearest to you and most applicable to you to work in with additional details about that certain IBM location.

Web Portfolio

- Deployed a website using ReactJS, Github Pages, and Material UI to represent my web portfolio, which includes multiple routing and user-friendly components. Check it out [omarelnagdy.com](#)

Github API

- This app interacts with GitHub to detect images in issue bodies and comments on the issue with the date and time. It is protected with BasicAuth and handles errors with helpful messages. Endpoints include retrieving issue info, checking for images, posting comments, and identifying images. Check it out [GithubAPI](#)
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