# Omar Elnagdy

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## EDUCATION

**The City College of New York ( Grove School of Engineering )**　　　　　**August 2015 - December 2019**
**Major:** Bachelor of Science in Computer Science　　　　　**New York, NY**
**Minor:** Mathematics

## TECHNICAL SKILLS

**Core Languages:** Java, JavaScript, Python
**Web Development:** ReactJS, TypeScript, HTML5, CSS/SCSS, Node.js, Angular, GoLang, NextJS, Tailwind
**Database:** MySQL, MongoDB, NestJS, Firebase
**Libraries:** jQuery, React Bootstrap, Carbon, Material UI, Webpack, Formik
**Cloud Platforms:** OpenShift, Docker, IBM Cloud
**Testing Tools:** Jest, React Testing Library
**Other:** Concepts in Algorithms & Data Structures, OpenAI, PostMan, Watson Chatbot, Github, JIRA, Chrome API

## EXPERIENCE

**IBM**　　　　　**May 2019 - Present**
*Software Engineer*　　　　　Southbury, CT
*Software Engineering Co-op*
*Software Engineering Intern*

➤ Collaborated with a cross-functional team to enhance IBM's cloud-native journaling and departmental software
➤ Focused on the front-end and back-end of IBM's cloud-native applications, GLUI and GUDA
➤ Utilized modern front-end technologies such as React, Angular, and TypeScript, and modern back-end technologies such as Node.js, Express, Spring, JDBC, and SQL
➤ Employed IBM DB2 and PostgreSQL relational databases, Docker for containerization, Artifactory for encapsulating Docker images, and IBM Hybrid Cloud
➤ Contributed to the transition of the global ledger application to a cloud-native solution using similar technologies
➤ Utilized Git and GitHub for version control, Travis for integrated build tests, and various CI/CD software
➤ Assisted the team with bug fixes and quality assurance testing through JIRA stories

**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

## TECHNICAL PROJECTS

**ChatGPT AI Voice Chatbot**　　　　　**May 2023**
■ The ChatGPT AI Voice Chatbot is a React project that uses TypeScript, Tailwind CSS, and Python with FastAPI and Uvicorn as the backend to communicate with OpenAI and Eleven Labs APIs for an interactive chatbot experience.

**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.

**M&C Studios**　　　　　**March 2019**
■ Coded an application using React JS, Firebase, OMDb API, and Stripe API to create a real-time move database with functionalities such as a shopping cart and wishlist with future payment providing the full movie.

**HerQuest** *(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.

**Web Portfolio**　　　　　**July 2021**
■ Deployed a website using ReactJS, Github Pages, and Material UI to represent my web portfolio, which includes multiple routing and user-friendly components.

**Github API**　　　　　**August 2022**
■ 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.