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: JavaScript, Java, Python
Web Development: React, TypeScript, Next.js, HTML5, CSS, Node.js, GoLang, Tailwind, React Native, Express, Rails
Database: MySQL**,** MongoDB, Firebase, PostgreSQL, Prisma, GraphQL
Libraries: jQuery, React Bootstrap, Carbon, Material UI, Webpack, Formik, Storybook, Redux
Cloud Platforms/Testing Tools: OpenShift, Docker, IBM Cloud, Jest, React Testing Library, Google Cloud
Certifications: File Processing in Python, **React - The Complete Guide 2024 (incl. React Router & Redux)**
Other/AI: Concepts in Algorithms & Data Structures, OpenAI, PostMan, Watson Chatbot, Git, JIRA, Figma

EXPERIENCE

Doran Jones, New York, NY
Senior React Developer   **May 2023 - February 2024**
➤ Developed an advanced component library for TransUnion, streamlining new feature development by 20%.
➤ Employed React, TypeScript, and Storybook, alongside sophisticated React testing tools, to create an efficient framework, leading to a 30% boost in development productivity at TransUnion.
➤ Established automated testing procedures using GitHub Actions, guaranteeing thorough testing of pull requests and improving code quality and reliability.

IBM, **Southbury, CT**
Software Engineer/Full Stack Developer   **January 2020 - May 2023**
Software Engineering/Full Stack Developer Intern/Co-op   **May 2019 - December 2019**
➤ Spearheaded developing and enhancing IBM's cloud-native software, including the advanced application for intercompany accounting agreements. Integrated front-end technologies like React and Angular, alongside Node.js, Spring, and MySQL, resulting in a 40% reduction in accountant workload from the legacy system.
➤ Managed IBM DB2 and PostgreSQL databases, Docker for containerization, and version control with Git and GitHub to support the transition to cloud-native solutions, further optimizing accountant efficiency by 30%.
➤ Supported team with bug fixes, quality assurance, and CI/CD processes via JIRA stories, using Travis for build tests.
➤ Implemented AI-powered chatbot using IBM Watson, enhancing user interactions and supporting features by building and seamlessly integrating the chatbot into the software ecosystem.
➤ Maintained expertise in IBM Voice Gateway and IBM Discovery, enhancing AI chatbot development. Developed a deep understanding of conversational design, flow, and automated speech recognition, including SSML for TTS integration.

FirmConnect, New York, NY
Full Stack Developer   **January 2021 - January 2022**
➤ At FirmConnect, I used ReactJS/TypeScript/MongoDB/NextJS/NestJS, with Algolia, to design a user-centric experience for driving sign-ups. My approach enabled users to create personalized consultancy pages, fostering engagement.

TECHNICAL PROJECTS

ChatGPT AI Voice Chatbot   **May 2023**
■ The ChatGPT AI Voice Chatbot is a full-stack 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.
My Wedding RSVP App   **November 2023**
■ Crafted an immersive React-based RSVP website, seamlessly blending Material UI and EmailJS. It simplifies our wedding journey with real-time updates and personalized email notifications for a modern and elegant user experience.
My Blog App   **March 2023**
■ Built a full-stack blog app with React, Next.js, and MongoDB, showcasing front-end design skills with CSS and responsive layouts. Implemented back-end development using Next.js API routes, MongoDB, and Firebase for creation features.