Brandon Chin

Software Engineer
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Skills

Strong: JavaScript(ES6+), TypeScript, React, Next.js, Node.js, Express.js, Git, Webpack, Microsoft Azure, NoSQL(MongoDB), SQL(Postgres), REST architecture, Test Driven Development(Jest/SuperTest/Cypress), Object Oriented Programming, HTML, CSS/Sass
Experienced: Microsoft Azure, AWS(Lambda, API Gateway, Virtual Machines), Google Cloud Platform, Apache Kafka, Prometheus.io, PromQL, GraphQL, Apollo, Chart.js, Material UI

Work Experience

Lighthouse | Co-Creator |*OS Labs* | *Real Time Apache Kafka Monitoring Tool* 2022
-Implemented and managed CI/CD pipeline while assisting in testing, structure, deployment and development to improve software delivery throughout software lifecycle, to provide an effective process for getting products to market faster and increase debugging efficiency by 30%
-Utilized kubernetes to orchestrate containers across multiple hosts during production to automate and control application deployment and updates, providing increased efficiency for our DevOps architecture
-Leveraged Next.js built-in routing, search engine optimization, and lightweight React framework, providing a faster load balance with lazy-loading and automatic code splitting
-Constructed a virtual machine on Google Cloud Platform to host a Prometheus server to source PromQL queries to monitor real-time Apache Kafka metrics and manage Kafka cluster alerts
-Established a Node.js server with Express and Apollo GraphQL to query the Prometheus client API, extract remote network Apache Kafka metrics, and modularize data requests
-Leveraged Prometheus server to scrape metrics from Apache Kafka clusters with JMX exporter to promote high availability and increased reliability of the application.
-Utilized Chart.js to display real-time metrics queried from Apollo GraphQL on a time series graph to improve user experience while providing key metrics to ensure application uptime

JPI Healthcare Solutions | Regional Technical Sales Manager 2021
-Orchestrated Health Level Seven International (HL7) integration with proprietary software to optimize X-Ray acquisition software compatibility to Picture Archiving and Communications System (PACS)
-Collaborated with developers on implementation of modifications, updates and debugging X-Ray acquisition software to provide a better user experience and stability to the software
-Directed a Google analytics integration project for the landing page utilizing JavaScript, HTML and CSS, to track conversion rates for the marketing team to improve and adjust advertisement campaigns

JPI Healthcare Solutions | Technical Systems Trainer 2021
-Dispatched a medical Picture Archiving and Communications System (PACS) cloud hosted service on AWS cloud services, incorporating integration with Fuji, GE, Canon, LG, and Samsung software to provide medical staff a governed, compliant and secure cloud infrastructure for their medical images

Projects

VOA | Co-Creator | Global Voting on Article
-Leveraged TypeScript to make JavaScript a strongly typed language, giving us more insight on data types of data queried, declared variables, and function output, to increase debugging efficiency
-Utilized Next.js and leveraged the built in CI/CD pipeline to provide better efficiency and a standard foundation of testing and deployment.
-Implemented Prisma to structure MySQL database schema, build CRUD functionality, and serve data to the tRPC endpoints in the frontend
-Integrated NextAuth with our application to provide a seamless signing in process by allowing Multi-factor authorization with Discord and Email
-Integrated Cron Jobs to schedule daily requests to our endpoint built on tRPC, providing high availability in the query request to receive 10 new articles.

HomeGrub | Co-Creator | Delivery Service App for Home Cooks and Small Family Businesses
-Utilized React to develop a single page application, provide a feature-rich user interface to track the estimated delivery time for their order by providing the component with state when an event handler is invoked
-Leveraged a third party API to provide a frictionless payment experience for the customers and security with payment data
-Instituted PostgreSQL for both seller and buyer to better categorize and store data for faster and secure queries.
-Employed Express with Node.js to handle API requests with multiple endpoints, leveraging middleware design patterns, flexible routing and controllers to modularize backend requests to PostgreSQL to enhance readability and allow for easy debugging
-Utilized Jest and Cypress testing frameworks to maintain application integrity for better stability and visibility for the development team

Green Planet | Co-Creator | Educational Tool for Recycling
-Architected a single page application with React-Router by dynamically re-rendering modularized components, decreasing the frequency of network requests
-Integrated PostgreSQL to store and manage user authentication and cookie sessions to maintain ACID compliance for secure access of data with multiple concurrent connections

Education

Baruch CUNY Weissman School of Arts and Sciences New York, NY
Bachelor of Arts in Applied Mathematics | Double Minor: Communications and Psychology

Public Talks

“Serverless Architecture - AWS Lambda and AWS API Gateway” - Sponsored by Jeeney and Bractlet

Certification

Microsoft Certified: Azure Fundamentals