ALEXANDER ZHAO

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TECHNICAL SKILLS

Skilled: *JavaScript, React, Redux, Node.js, GraphQL, PostgreSQL, MongoDB, Express, Tableau, AGILE, TDD*
Proficient: *Java, Python, Hadoop, OAuth2, OpenID, RemedyForce, JIRA, BOXI, PASS, FairTax, BTS*

ACHIEVEMENTS

- Nationally Placed 1st in Team USA's Summer 2016 Rio de Janeiro Optimization Competition
- Nationally Placed 2nd in Team USA's Winter 2018 PyeongChang Optimization Competition

PROJECT PROFOLIO

Givhub: Github Repo | Video Demo | Deployed App
A P2P, iOS/Android PW App that streamlined the food donation process by enabling donors and couriers to connect with foodbanks.
MongoDB | Express | React | Redux | Node.js | Twilio | Socket.io | MapBoxGL

- Reduced complexity across all models by 50% by designing a NoSQL, MongoDB database to handle users and foodbanks that allows for dynamic customization and smart referencing as needed.
- Sped up subsequent user-courier matching to be 80% faster, by implementing a caching system for the closest foodbank.
- Mapped the best route for a courier to take to their respective pick-up and drop-off locations with real-time updates for the donor.

Watch Buddy: Github Repo | Deployed Beta
A video streaming-based platform that allows you to watch media in sync with friends or book sessions with clients
PostgreSQL | GraphQL | React | Redux | Node.js | Bootstrap | Express | Cypress

- Solved a repetition issue of Redux with GraphQL by dynamically generating queries on-the-fly, requiring only a single thunk.
- Eliminated 90% of all manual testing through automating E2E tests with Cypress, cutting response time to ~20ms.
- Built a breathing React Form that allows for in-place custom input type switching, expanding as needed for a seamless UX.

Grace Car Shopper: Github Repo | Deployed App
An E-Commerce platform tailored for the sale of used cars with a focus on UX/UI, a RESTful API and a robust database schema
PostgreSQL | React | Redux | Node.js | Semantic-UI | Express

- Minimized the over-fetching of data by emphasizing a modular PostgresSQL database that prioritized intuitive relationships between models, allowing for smooth client to server interactions.
- Protected all API routes with authentication checks and security measures to avoid injection attacks and XSS attacks.

PROFESSIONAL EXPERIENCE

Deloitte & Touche, LLP   **New York, NY**
Technology Consultant   *June 2017– Present*

- Slashed hours off codebase walkthroughs with application engineers by leveraging my expertise on industry best-practices of Fortune 100 clients, including AGILE software development, DevOps protocol and Test-Driven Development.
- Doubled my team's knowledge base of 173 system interfaces on transfer technologies such as IBM MQ, SOAP protocols, and ETL based processes, leading to reduced confusion and the focused execution of deliverables.
- Automated 95% of manual tasks such as batch survey production and file hierarchy creation using custom VBA modules.

New York City Department of Finance – Technical Tool Development   **Brooklyn, NY**
Staff Analyst   *June 2016 – August 2016*

- Manipulated 10 years of audit case data, optimizing 11 different tax types with multiple criteria, requiring consolidation between two separate database systems BOXI and BTS, fulfilling a direct initiative from the Commissioner of Finance and CIO.
- Satisfied 100% of stakeholder requirements by implementing multiple interdependent tables which processed over a decade of data for the use of 11 tax directors to seamlessly pull up all relevant information on the fly.
- Cut manual metric baselining by 70% using object-oriented programming to generate usable data for the Tax Metrics initiative.
- Debugged and adapted the initiative 60% faster to the constantly changing circumstances due to the modular approach taken during development.

EDUCATION HISTORY

Fullstack Academy of Code
Diploma: Computer Science Fundamentals, Software Engineer and Fullstack Development   *Spring 2020*
Binghamton University, State University of New York, School of Management
Bachelor of Science in Business Administration/Concentration in Information Systems   *Spring 2018*