Isaac Pak

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SKILLS

JavaScript, Node.js, Python, Ruby, SQL, PostgreSQL, GraphQL, Express, Sequelize, Flask, SQLAlchemy, Ruby on Rails, React, Next.js, Redux, styled-components, Scheme/Racket, Clojure, LISP, AWS, Git, Heroku, Docker, Mocha, Jest, Data Structures & Algorithms, TDD, OOP, Functional Programming

PROJECTS

Klangwolke | *JavaScript/React/Redux, Python/Flask, SQLAlchemy, Docker, Heroku, AWS*   **live** | **github**
- Optimized PostgreSQL queries to achieve timely reads on >5000 records, and stress-tested with loader.io to identify performance bottlenecks
- Utilized AWS S3 to store users' uploaded resources, and created a custom React component to allow drag-and-drop file uploading
- Constructed modular React components to implement modals and adhered to DRY principles to improve scalability

Noteman Stevens | *JavaScript/React/Redux/Express*   **live** | **github**
- Implemented a keystroke-triggered auto-update feature, with debouncing (via React's useMemo and useCallback) to reduce server load
- Built RESTful Express backend to handle CRUD operations and persist data in PostgreSQL database, via Sequelize
- Developed a React/Redux frontend that emphasizes simplicity and efficiency, for a streamlined user experience

Web Application for International School of Tailoring Limited (U.K.) | *In Development*
- Developing a pattern making application to address a lack of accessible educational material for aspiring bespoke tailors
- Employed a GraphQL Ruby backend to handle complex queries and persist data in a PostgresQL database
- Applied topographical sorting to user data in order to maintain "order of operations" in the pattern making process
- Collaborating with one other software engineer while adhering to Agile practices in order to minimize time sinks and improve workflow

EXPERIENCE

Bespoke Tailor
TIEFENBRUN   May 2019 - Aug 2021
- Led the coat-making team and guided new team members and interns, providing instruction and encouraging clear communication channels throughout the >100-hour process of crafting a bespoke suit
- Served as one of the client-facing representatives of the atelier, assisting clients throughout the garment design process and providing textile suggestions based on their specific needs
- Developed a proprietary garment cutting system to better accommodate a physiologically diverse clientele

EDUCATION

AppAcademy - 1000-hour immersive full-stack web development intensive with <3% acceptance rate | 2020 - 2021
Fashion Institute of Technology - Coursework towards an A.A.S. Menswear | 2018-2019
Tufts University - Coursework towards a B.S. Electrical Engineering | 2014-2015
- Course highlights:
    - Discrete Mathematics
    - Introduction to Computing in Engineering
    - Introduction to Computer Science