Isaac Pak

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Portfolio: isaacsungpak.github.io   **LinkedIn:** linkedin.com/in/isaacsungpak   **GitHub:** github.com/isaacsungpak

SKILLS

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

PROJECTS

Klangwolke ∣ *JavaScript/Node.js, React/Redux, Python, Flask/SQLAlchemy, Docker, Heroku, AWS*   **Live** ∣ **GitHub**
- Optimized PostgreSQL queries to achieve timely reads on >5000 records and stress-tested with k6 to identify performance bottlenecks
- Architected a RESTful Flask backend that employed composite primary keys in a PostgreSQL database to ensure uniqueness of records and reduce time complexity of reads
- Utilized AWS S3 to store users' uploaded resources, and created a custom React component to allow drag-and-drop file uploading

Noteman Stevens ∣ *JavaScript/Node.js, React/Redux, Express.js*   **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
- Normalized data in a Redux store to handle changes in state and optimize performance
- Constructed modular React components to implement modals and adhered to DRY principles to improve scalability

Web Application for International School of Tailoring Limited (U.K.) ∣ *In Development*
- Developing a pattern making application to address a lack of accessible education for aspiring bespoke tailors
- Utilized GraphQL to handle complex queries and persist data in a PostgreSQL database, via Active Record
- Applied topological sorting to users' mapped data in a self-referential table to maintain an order of operations and prevent cycles in the pattern making process
- Collaborating with a small, international software engineering team, while adhering to Agile practices to minimize time sinks and improve workflow

EXPERIENCE

TIEFENBRUN, New York   May 2019 - Aug 2021
Bespoke Tailor
- 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 physically diverse clientele and promote inclusivity

EDUCATION

App Academy - 1000-hour immersive full-stack web development intensive with <3% acceptance rate ∣ 2021 - 2022
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