

# Isaac Pak

203-856-8544 || [sungyulpak@gmail.com](mailto:sungyulpak@gmail.com) || Stamford, CT

**Portfolio:** [isaacsungpak.github.io](https://isaacsungpak.github.io) **LinkedIn:** [linkedin.com/in/isaacsungpak](https://linkedin.com/in/isaacsungpak) **GitHub:** [github.com/isaacsungpak](https://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 logic behind 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 backend to handle CRUD operations and persist data in PostgreSQL database, via Express
- 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 Ruby on Rails
- 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