

Finn Buick

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SOFTWARE ENGINEER

WORK EXPERIENCE

Upstreet

FULLSTACK ENGINEER | APR 2021 - PRESENT

- Designed and maintained a robust, multi-tenant Next.js application featuring role-based access control, empowering our clients to manage internal employee share rewards on our platform. Delivered the initial release a week ahead of schedule by collaborating closely with the backend API team. Supported backend Express API development as the sole frontend developer.
- Led the development of a full-stack web app using React and Material UI, replicating mobile app functionality. Created new backend APIs with GCP Cloud Functions.
- Actively promoted knowledge sharing in engineering meetings, introducing new technologies and insights to improve the team's productivity and efficiency.
- Architected and implemented a bespoke email verification system using React, Firebase Auth SDK, and SendGrid, enhancing the security and reliability of user interactions on our platform.
- Designed and constructed a versatile admin tool to efficiently manage visible offers within our mobile and web applications. Noteworthy features encompassed comprehensive input validation, scheduled deactivation capabilities, and a user-friendly publishing system, substantially reducing the likelihood of user errors and enhancing the overall user experience.

SKILLS

- React/Next.js
- TypeScript
- Node/Express.js
- HTML & CSS
- Python
- Github Actions
- Production monitoring
- Testing - Jest, Cypress, React Testing Library

PROJECTS

SPOTIFY JUDGER

- Developed an engaging chat bot that playfully evaluates users' music preferences using OpenAI's Chat Completion API and the Spotify Web API. This project honed my skills in Next.js 13, Tailwind CSS and prompt engineering. Try it out @ <https://spotify-judger.vercel.app/>.

FINGER COUNTER

- A university project to identify the number of fingers a person was holding up in a live video stream using computer vision. Written in **Python** and utilizing a computer vision library called **OpenCV**.

ACADEMIC HISTORY & TRAINING

Macquarie University

BACHELOR OF ENGINEERING, SOFTWARE (HONS)
2015 - 2021

- Learned data structures, algorithms, design patterns, web development, systems programming and software engineering practices.
- My final year thesis project was to build a predictive text editor for a Controlled Natural Language

The Joy of React 2023 (Early Access)

JOSH W COMEAU

- A recently developed course that goes from react basics, through to component API design, advanced react design patterns and recent full-stack trends in Next.js such as react server components.

The Modern React Bootcamp 2021

UDEMY

- Learned modern **React** development including React Hooks, Context, NextJS, React Router