

ZAKI MACHFJ

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Skills

Languages: JavaScript ES7, TypeScript, HTML5, CSS3, C++14
Technologies: React, Node, Express, Ruby on Rails, MongoDB, AWS, PostgreSQL, Git

Experience

Software Developer

May 2021 – August 2021

Quill Podcasting

- Converted Figma designs into UI components for an online tool with Alpine.js and Tailwind CSS
- Designed and implemented data models in Ruby On Rails with PostgreSQL to model a podcast
- Built graphs using the Chart.js library to visualize clients' podcast analytics and retention metrics
- Deployed an early version of the product to AWS with a 100% client satisfaction in design quality

Frontend Developer

Sept 2019 – May 2020

Glenforest STEM

- Built UI components with ReactJS and MaterialUI for the company's landing and contact pages
- Migrated a multipage experience into a single page app, improving customer retention by 25%
- Built a JavaScript test suite to automate tests through Postman, saving around 10 hours weekly

Projects

Hydrant (Hackathon Project)

Wildfire Crowdsourcing Tool

- Developed and pitched an iOS crowdsourcing app for detecting wildfires with Swift
- Won 1st place of 50+ teams and received a global nomination at the 2018 Space Apps hackathon
- Implemented geo-satellite Web APIs to track and detect global wildfires with 90% accuracy

NatureCamp

Campground Networking App

- Built an interactive map for locating popular campsites with React, Redux and Node
- Automated user registrations, logins and authentication with MongoDB and Passport
- Prioritized user experience by implementing responsiveness and cross-browser compatibility

Education

University of Waterloo – Honors Bachelor of Computer Science

Sept 2020 – May 2025

- Courses: OOP in C++, Algorithms, Data Structures, Operating Systems
- Clubs: Intramural Basketball, Hyperloop Design Team

Interests

Soccer | Snowboarding | Reading | Fitness | Crypto Trading | Chess