

# Zaki Machfj

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## SKILLS

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Languages: JavaScript ES8, TypeScript, C++14, Python, Go

Technologies: React, Node, Ruby on Rails, MySQL, MongoDB, AWS, PostgreSQL, Angular, Git

## EXPERIENCE

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### Software Developer

May 2022 - Aug. 2022

Dejero | *Ruby on Rails, Angular, Golang, MySQL*

- Led the implementation of the company's new 2FA system on a Rails backend, requested by **60% of clients**
- Developed a custom, client-catered tooltip component in Angular and presented it to **30+ stakeholders** at the monthly stakeholders meeting
- Oversaw the redesign of **3** Rails backend models to enable clients to SSH into remote support sessions
- Modernized existing backend by migrating Ruby scripts to Golang, increasing scalability and performance
- Built a notification system for monthly SIM data usage on client devices using Angular and Rails

### Software Developer

May 2021 - Aug. 2021

Quill Podcasting | *Ruby on Rails, PostgreSQL, AWS*

- Converted Figma designs into UI components for an online podcasting tool with Alpine.js and TailwindCSS
- Designed and implemented data models in Ruby on Rails and PostgreSQL to model key podcast features
- Built graphs with Chart.js to visualize clients' podcast analytics and retention metrics, **resulting in a 24% increase in active users**
- Implemented UI designer mockups of a custom podcast player, **requested by over 50% of the clients**
- Deployed an early version of the product to AWS EC2, with a **100% client satisfaction in design quality**

## PROJECTS

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### Yelp Camping Clone | *React, Postgresql, TypeScript*

- Created a Yelp-inspired clone for posting, viewing and rating popular campsites with React
- Implemented a full authentication flow with Google and Github using Auth0
- Parsed nested JSON data from a mock API to **insert 1000+ campsites** and reviews into the PSQL database

### Wildfire Detection App | *Swift*

- Won **1st place of 50+ teams** at NASA SpaceApps for a wildfire detection app written in Swift
- Leveraged NASA satellite API's (GOES-R) to detect potential wildfires in real time (8 minutes)

## EDUCATION

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### University of Waterloo | Bachelor of Computer Science

Sept. 2020 - May 2025

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