Jamie Pinheiro

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SKILLS

Languages   JavaScript • TypeScript • Python • C# • Java • Kotlin • C++ • Ruby • HTML • CSS
Technologies   Node • Express • Rails • OAuth • NoSQL • SQL • GraphQL • Redis • Vue • React • Angular • .NET • Unity3D
Tools   AWS • Azure • GCP • Firebase • Expo • Datadog • Jira • Docker • Kubernetes • Amplitude • Mode

EXPERIENCE

GOOGLE | Software Developer   Los Angeles, CA | May '20 - Aug '20

- Implemented security fixes to the Open Source **LibRaw** project for ingesting RAW footage into **Google Photos**
- Rewrote several **C++** demoasaicing algorithms for a **10% performance gain** in post-processing image data
- Configured the project to be **fuzz tested** through **OSS-Fuzz** to improve the detection of vulnerabilities
- Transitioned the build system from **Autotools** to **Bazel** for faster incremental building and parallelization

FAIRE | Backend Engineer   Waterloo, ON | Sept '19 - Dec '19

- Broke up a series of tasks into **Amazon SQS** consumable jobs with **Kotlin**, reducing failure rates by **over 80%**
- Integrated with **Datadog** to track job performance and set up alerting to monitor health and stability
- Migrated to the latest **Square Connect API** to renew existing **OAuth** tokens used to link POS systems
- Refactored the test engine SQS mock to **speed up integration tests by 20%** helping improve developer velocity

MICROSOFT | Software Engineer   Redmond, WA | Jan '19 - April '19

- Used **GitHub Webhooks** to add work item linking for **10,000+ users** of Azure Boards and GitHub
- Configured a redundancy job to ensure consistency using **GitHub GraphQL** and **Azure SQL DB**
- Developed a servicing job that ran on **200,000+ teams** to ensure backwards compatibility of future integrations
- Published **Kusto Queries** to a **PowerBI Dashboard** to track feature usage, error rates, and performance

MICROSOFT | Explorer   Redmond, WA | May '18 - Aug '18

- Architected an extensible framework for developing "quick fixes" for common C++ errors inside **Visual Studio**
- Developed **10+ IDE Refactoring Functions** with **C++/C#** to improve developer productivity
- Implemented a **Fuzzy Search Algorithm** with compiler data for suggesting corrections to misspelled code
- Drafted spec documents by conducting user studies and analysing telemetry for new experiences/flows

ENERGYHACKS | Founder and Director   Waterloo, ON | Sept '17 - Present

- Organized uWaterloo's first **Sustainability Hackathon**, connecting **200+ students** with mentors and sponsors
- Led the engineering team by delegating work, code reviewing and managing the website's **GCP** services
- Ran a social marketing campaign, utilizing SEO tactics to reach **over 20,000 individuals**

PROJECTS

DISTANCE TOGETHER   distance-together.web.app

- A **React Native** app built for **Android/iOS** that gamifies social distancing using real time geodata
- Utilized **Cloud Firestore** and **Cloud Functions** to build out the API and Auth layers, scaling to **1,000+ users**
- Delivered **25,000+** emails and push notifications by integrating **Mailchimp's APIs** and **Expo's Push Service** with cron jobs created through **Cloud Scheduler**

GIF CHAT   gifchat1.herokuapp.com

- A chat room **Web App** that allows users to communicate solely using gifs
- Built using **React** and **Node/Express** utilizing **web sockets** for live chat, **Bing's Search API** for finding gifs and **MongoDB** to store message data

EDUCATION

UNIVERSITY OF WATERLOO | Bachelor of Computer Science   2017-2022

Teaching Assistant • Dean's Honor List • President's Scholarship of Distinction • Faculty of Mathematics Entrance Scholarship