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 • Heroku • Firebase • Datadog • Git • Jira • TFS • Docker • Kubernetes • PowerBI • Mode

EXPERIENCE

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%**
- Reduced key API endpoints latency by **over 100%** by refactoring lazy-loading on **MySQL** queries
- Integrated with **Datadog** to track job and task performance and set up alerting to monitor health and stability
- Generated metrics to measure **Kubernetes Pod** deployment to understand bottlenecks (**Redis Cache** warming)
- Migrated to the latest **Square Connect API** to renew **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,
- Prototyped an issue importer from GitHub to Boards using **React/.NET**, establishing the technical feasibility
- Configured a redundancy job to ensure consistency using **GitHub GraphQL** together with **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 | 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 **AWS** services
- Ran a social marketing campaign, utilizing SEO tactics to reach **over 20 000 individuals**
- Connected with numerous sponsors (BEIC, GitHub, Jumpstart) and secured **$3300** to support the hackathon
- Scaled the organizing team from **3 to 20 people** to double the size of the event for 2020

PROJECTS

GIF-CHAT   gifchat1.herokuapp.com
- A Full Stack chat room application that allows users to communicate solely using gifs
- The frontend was built using **React** and backend api was built with **Node**/**Express** utilizing **web sockets** for live chat, **Bing's Search API** for finding gifs and **MongoDB** to store message data

PLACE-AI   place-ai.web.app
- A Web App built at Hack The North that assists small business owners in finding ideal store locations based on demographic quantifiers and competitor analysis using machine learning
- **Azure ML** is used with data from the Canadian Census and **Facebook Places' API** to perform clustering
- A Serverless backend caches API calls with **Cloud Firestore** and uses **Cloud Functions** to process the data
- Uses **Google Maps' API** and **Vue** to render multi-level heatmaps along with local competitor and real estate data

EDUCATION

UNIVERSITY OF WATERLOO | BACHELOR OF COMPUTER SCIENCE   2017-2021
Dean's Honor List 2018 • President's Scholarship of Distinction • Faculty of Mathematics Entrance Scholarship