

Jamie Pinheiro

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SKILLS

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

EXPERIENCE

- JANE STREET | SOFTWARE ENGINEER** New York, NY | Sept '21 - Dec '21
- Built a tool for tracing latency across services and viewing aggregate results in a generated **Jupyter Notebook**
 - Wrote a library to stream browser logging to a central location with client and server rate limiting
 - Developed a **Sanity Checker** framework for snapshots fed into pricing models used by ADR traders
- INSTAGRAM | SOFTWARE ENGINEER** Menlo Park, CA | May '21 - Aug '21
- Created an internal tool for **visualizing** and **debugging** metric queries (for likes, video views, story views etc.)
 - Established an extensible schema for other metric consumers to integrate with the tool to help increase adoption
 - Linked with a metrics validation framework to enable rules that improved metric integrity
- JANE STREET | SOFTWARE ENGINEER** New York, NY | Sept '20 - Dec '20
- Built an application for traders to write lazy executing **SQL** queries for historical bond market data
 - Setup the application to **batch**, **dedupe** and **cache** multiple requests for an average **2x latency improvement**
 - Developed a **Garbage Collection** mechanism to cleanup messages used in a **Kafka** based distributed state machine
- GOOGLE | SOFTWARE DEVELOPER** Los Angeles, CA | May '20 - Aug '20
- Optimized the **libraw** project, leading to a **10% speedup** in ingesting RAW images into **Google Photos**
 - Configured the project to be **fuzz tested** through **OSS-Fuzz** to improve the detection of security vulnerabilities
 - Built and released **libmphoto** - an **open source library** for muxing motion photos to increase the format's adoption
- FAIRE | BACKEND ENGINEER** Waterloo, ON | Sept '19 - Dec '19
- Broke up a series of tasks into **Amazon SQS** consumable jobs, reducing failure rates by **over 80%**
 - Integrated with **Datadog** to track job performance and set up alerting to monitor health and stability
 - 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 for **200,000+ teams** to ensure consistency using **GitHub GraphQL** and **Azure SQL DB**
- ENERGYHACKS | FOUNDER AND DIRECTOR** Waterloo, ON | Sept '17 - Present
- Organized uWaterloo's first **Sustainability Hackathon**, connecting **200+ students** with mentors and sponsors
 - 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**
- 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**, **Bing's Search API** and **MongoDB**

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