

LEWIS DIAMOND
B.Eng, Computer Engineering

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I design and build technologies companies depend on. With expertise in distributed systems, infrastructure and development best practices, I can provide technological leadership to deliver exceptional software.

EXPERTISE

Programming Languages: Rust, Typescript/Javascript, C++, Java, Python, Go, Bash
Operation: Linux, Kubernetes, Kafka, MQTT, Prometheus, Grafana
Databases: Cassandra, Postgres, ArangoDB, RocksDB, DynamoDB

OPENSOURCE

rms: WIP - A fast email indexer with a command line interface, written in Rust.
<https://github.com/lewisdiamond/rms>

stromjs: A dependency-free stream utility library. Lodash for streams.
<https://github.com/lewisdiamond/stromjs>

EXPERIENCE

Amazon.com / AWS

Software Engineer, current since 2020

Technologies used: Java, DynamoDB, Redshift, Go, Kubernetes

AWS - EKS-anywhere:

- Create a Kubernetes manifest cryptographic signature verification system
- Design and develop an add-ons system for EKS-A with full lifecycle management
- Develop Kubernetes operators
- Interview SDE candidates
- Create test and build infrastructure
- Contribute to open-source software

Amazon.com:

- Developing software aimed at increasing availability in Canada/Mexico/Brazil
- Addressing critical performance bottlenecks
- Promoting modern development best-practices
- Reviewing code and enforcing high standards of quality
- Mentoring developers

Jogogo, Startup with ~30 employees and 5M funding

Chief Technology Officer, 2019-2020

Lead Architect, 2017-2019

Technologies used: Nodejs, Rust, Cassandra, Kafka, MQTT, Kubernetes

- Leading a development department to create the company's core technology
- Mentoring developers and recruiting new talent
- Designing a scalable distributed indoor location analytics system
- Developing core components for near-real-time analytics
- Building a flexible data processing pipeline using Rust and Nodejs
- Developing an embedded WiFi/BLE sniffer based on Archlinux
- Overseeing and contributing to the development of a Rust based WiFi and BLE data aggregation system including high throughput cloud components used to funnel and filter large amounts of incoming data
- Leading the development of a camera based location analytics solution built in record time as a response to the COVID-19 lockdown

Chopchop.io, Founder, 2014-2017

Technologies used: Nodejs, Python, React, ArangoDB

- Designing and developing a Reactjs restaurant recommendation application
- Creating a graph recommendation engine using ArangoDB and Javascript
- Writing REST services in Python and Javascript
- Integrating with external services
- Deploying on AWS using containers

Diamond Consulting, Founder

Expedia, 2013-2014,

Technologies used: Java, Cassandra

- Designing and developing the new geography system for all Expedia brands as part of the data acquisition team
- Creating REST APIs, designing and implementing big data schemas and developing multi-threaded applications (Cassandra, Java, Spring)
- Performing code reviews
- Leading the migration from Perforce to Git (Git, Gerrit, Jenkins)

Morgan Stanley, 2012-2013

- Developing a new generation post-trade processing software for a leading bank
- Leading the development of Interest Rate Swaps execution report processing
- Improving architecture through several major core refactoring

Morgan Stanley, Developer, 2010-2011,

Technologies used: Java, C++

- Managing a small team throughout a 4-week sprint project with the goal being to produce a web-based mobile directory application
- Owning, managing and developing an application used to enforce regulations and approve new client accounts
- Developing a testing framework for data-dependent unit tests
- Performing recruiting and technical interviewing for new grads and senior developers

Genetec, Developer, 2008-2009

Technologies used: C++, C#, JS, SQL

Verint, Embedded Software Developer, 2007-2008

Technologies used: C++, Linux, TCL/TK

EDUCATION

Université de Sherbrooke, Sherbrooke

Bachelor's degree in Computer Engineering

St-Lawrence College, Quebec

Diploma of College studies in pure and applied science