

Matthew Beirouti

TECHNICAL SKILLS:

Coding / HDL: Java, Python, Go, Ruby (Rails), C, HTML, CSS, JavaScript, React, GraphQL, MySQL, VHDL
Tools / OSes: Git, IntelliJ, Visual Studio Code, Spring, Docker, Kubernetes, Travis, LaunchDarkly, AWS, Scikit, OpenCV, LaTeX, Microsoft Office, macOS, Windows, Linux
Other Spoken Languages: French (intermediary), Arabic (native)

WORK EXPERIENCE:

Amazon, Seattle, WA

March 2020 – Present

Software Development Engineer – Customer Data Foundations / AmazonAPI

- Refactored metrics to achieve seamless integration of service metrics with CloudWatch across all layers of core service logic. Added key code instrumentation to gain valuable insights into customer usage patterns.
- Designed and implemented an API to allow services running on an internal non-imperative serverless compute platform to call our Tier-1 service, to help unblock major VP level goals
- Helped redesign and refactor the backend services that support the delivery block feature on the retail website. This reduced operational risk, development complexity and will result in yearly savings of at least \$500k and 1 dev year
- Independently migrated our Tier-1 service code and fleet from JDK 8 to JDK 11 and from the x86 platform to aarch64
- Collaborated to design the onboarding experience for a newly developed API and implemented the models, views and controllers, enabling automated onboarding to this API at scale
- Lead biweekly operational excellence meetings to identify and address service anomalies and opportunities to add metrics, alarms, dashboards and documentation for monitoring, troubleshooting and maintenance of our Tier-1 service
- Organized and led the performance and stress testing of our biggest service in preparation for our largest yearly peak, saving the team around 40% in operating costs for these tests

Cogo Labs, Cambridge, MA

October 2018 – November 2019

Software Engineer – Platform Team

- Collaborated to architect and develop a high throughput microservice API which enables analysts to interface with hundreds of databases, 5 times faster per request or query than the previous API
- Independently built the full stack of an inhouse email validation tool, allowing Cogo Labs to migrate away from a similar service provided by a 3rd party vendor, helping reduce costs by over \$500K per year
- Analyzed and consolidated user stories for the validator by conducting user interviews
- Provided support and improved usability based on collected user feedback with useful day two features

Current Powered by GE, Montreal, QC

May 2017 – December 2017

EEDP Intern – Quality Assurance

- Developed automated test scripts for LightGrid – an outdoor wireless embedded control system
- Led the building of a stress and scalability testing framework for LightGrid's backend
- Evaluated various performance metrics on a network with over 200 LightGrid nodes
- Aggregated data and accumulated findings into presentable, easy to understand reports

EDUCATION:

McGill University, Montreal, QC

Bachelor of Engineering - Computer Engineering

May 2018

Noteworthy Classes: Applied Machine Learning (COMP 551, graduate level), Artificial Intelligence (COMP 424), Intro to Computer Vision (ECSE 415), Leadership (ORGB 321), Strategies for Sustainability (MGPO 440)

Noteworthy Projects: AI for Social Good – Hackathon Project Lead, VP Internal – Student Council