SOLAIMAN JAWAD

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SKILLS

- · Experienced with distributed systems, dataplane development, databases, infra, machine learning
- · Python, Java, TypeScript/JavaScript(Node, React, CDK), Go, Rust, C, C++, Lisp, Ruby, SQL

EDUCATION

University of Waterloo

Sept '17 - Sept '22

Honours Bachelors of Computational Mathematics, Computing Technology Option

Work Experience

Amazon Web Services

Vancouver, BC

Software Development Engineer (Network Load Balancing)

Oct '23 – Present

- · Designed connectivity canaries for availability metrics and performance testing of service end-to-end
- · Built support for <u>DPDK</u> pdump packet capture on the primary dataplane process for data dumping
- · Aided remodelling of capacity control, allowing concurrent resource deallocation to be executed safely

Software Development Engineer (API Gateway)

Jan '23 – Oct '23

- · Automated region build by introducing chained workflows, migrating service resources to CDK and addressing automation gaps, reducing developer region build effort from 32 days to 4 hours
- · Mitigated service throttling by adding database caching to fleet, reducing peak transactions by 38%

Hivestack Toronto, ON

Junior Software Developer (Campaigns)

Sept – Dec '22

- · Customized Campaigns API to queue expensive operations on workers to improve user experience
- · Remodeled relationship between DSP deals and sites, allowing grouped deals with multiple locations

Internship Experience

Alida Toronto, ON

Software Development Intern (Touchpoint Microsurveys)

Sept '21 – Apr '22

- · Built a survey page template in React to add sections dynamically, pushing user engagement up 6%
- · Expanded custom targeting by introducing customer attributes to select customers to survey

PointClickCare Mississauga, ON

Software Engineering Intern (Order Creation)

Jan – Apr '21

- · Implemented multiple components in the core workspace from concept designs through completion
- · Worked cross-team to develop various landing pages for order creation using React and Typescript

Electro Source Inc Etobicoke, ON

Software Developer Intern (SR&ED Credit Tracker)

Jun – Aug '20

- · Built a work management program that monitors SR&ED claimable projects using email digests
- · Managed infrastructure using Terraform and initiated ASG scaling policies, saving \$12,000+ annually

Intelerad Medical Systems

Toronto, ON

Software Developer Intern (Machine Learning)

Sept – Dec '19

- · Automated the chest X-ray hanging protocol by building neural networks to classify viewing angles
- · Created a residual variation of YoloV3 for object detection of vertebra in the spinal column
- · Improved data collection throughput by 45% in analysis tools using Fourier transforms and OpenCV

PROJECTS

- pathfinder Interface which generates mazes and visualizes different pathfinding algorithms
- · bigRSA program that generates 300 digit primes to encrypt and decrypt messages using RSA