

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 DPDK pdump packet capture on the primary dataplane process for data dumping
- Aided remodeling 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