Solaiman Jawad

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SKILLS

- · Experienced with distributed systems, databases, infra, deep learning, performance and optimization
- · Python, Java, JavaScript, Go, Rust, C, C++, 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)

Jan '23 - Oct '24

- · Architected connectivity <u>canaries</u> for availability metrics and performance testing of service, giving visibility into dataplane config propagation path and reducing deployment blast radius by 13%
- · Worked on capacity placement control, allowing concurrent resource deallocation to be executed safely
- · Implemented <u>packet capture</u> on the primary routing process for operators to analyze network traffic

Software Development Engineer (API Gateway)

- · Automated regional service build by introducing chained workflows, migrating resources to CDK and addressing automation gaps, reducing developer region build effort from 32 days to 4 hours
- · Implemented cache prewarming and exponential jitter on service fleet records during peak traffic, reducing maximum transactions by 28% and mitigating throttling during table rollover

Hivestack Toronto, ON

Junior Software Developer (Campaigns team)

Sept – Dec '22

- · Customized ad campaign API to queue runtime operations on workers, improving user experience
- · Remodeled relationship between vendor & product structures, enabling grouping deals by location

Alida Toronto, ON

Software Development Intern (Touchpoint Microsurveys)

Sept '21 – Apr '22

- · Built a page template which adds actions to adverts dynamically, pushing user engagement up 6%
- · Expanded custom targeting by introducing customer attributes to select customers to survey

PointClickCare Mississauqa, ON

Software Engineering Intern (Order Creation)

Jan – Apr '21

· Implemented React components in the order creation page from concept designs through to completion

Electro Source Inc

Etobicoke, ON

Software Developer Intern (SR&ED Credit Tracker)

Jun – Aug '20

- · Developed a work management program that monitors SR&ED claimable projects using email digests
- · Moved cloud infra to CDK IaC and initiated custom host 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