

# Jerry Deng

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## Education

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**Carleton University** | *Bachelor of Computer Science (Honours), 3.9/4.0 GPA*

**Sep 2020 - Aug 2023**

Relevant Coursework: Object-Oriented Software Engineering, Programming Paradigms, Database Management Systems, Web Applications, Neural Networks, Operating Systems, Design & Analysis of Algorithms, Intelligent Web Systems

## Skills

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Languages: Python, Java, Javascript, Ruby, Golang, C/C++, Rust, Lua, HTML, CSS, SQL, Bash

Technologies: Flask, Node.js, MongoDB, Express, Spring, React.js, Rails, NGINX, REST, GraphQL, IP, DNS

Tools: Git, Agile, Postman, Wireshark, Google Cloud Platform, Docker, Kubernetes, Terraform

## Experience

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**Shopify** | *Production Engineer Intern*

**Jan 2023 - Aug 2023**

- Developed L7 routing infrastructure with Google Kubernetes Engine, involving updating custom NGINX middleware written in Lua, managing TLS certificates, configuring firewall rules, **handling 20 million RPM**
- Built observability tooling with Prometheus metrics and integrated request latency dashboards with alerts
- Implemented location based application routing in Golang, **reducing latency for onboarded apps by over 40%**
- Upgraded Kubernetes cluster fleet in Terraform with custom developer tools, improving infrastructure security
- Led project on **reducing latency between two major services by 75%** using Kubernetes load testing

**Shopify** | *Backend Developer Intern*

**May 2022 - Dec 2022**

- Prepared project experiment to add a new server-driven section to the store screen of the Shop app, including developing Ruby data loader transforming MySQL data into client-ready GraphQL APIs with Redis caching
- Integrated Elasticsearch templates adding a new sort option for products, **ingesting 2 million records**
- Added monitoring to key backend services with StatsD metrics and linked metrics to Datadog monitors
- Championed project deep-dive into improving store section performance, discovering extraneous logic and coordinated action items for the team, resulting in **10% average reduction in latency across all services**

**Shopify** | *Software Engineer Intern*

**May 2021 - Apr 2022**

- Designed and integrated report editing buttons into a data platform website combining all data sources, creating React components, **enabling archiving and locking reports for over 1000 developers and data scientists**
- Fixed CSS styling errors, resulting in correct links and improved flex layout for superior user experience
- Developed Ruby GraphQL APIs to allow authenticated users to access restricted functionalities and datasets
- Owned pages of a major data discovery website revamp, drafting Figma designs, creating React components, transforming GraphQL queries with Typescript, resulting in **improved UI navigation for over 4000 employees**

**Shopify** | *Dev Degree Intern*

**Sep 2020 - Apr 2021**

- Selected to join **Dev Degree**, working part-time at Shopify alongside computer science degree
- Completed 8-month training covering the fundamentals of Ruby, Rails, React, SQL, Git, Javascript, and Scrum

**Nokia** | *Future Tech Intern*

**Jul 2019 - Aug 2019**

- Developed production malware signatures using TCP/IP network analysis with Wireshark and bash scripting tools

## Projects

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**Bird Classifier** 🔗 | Python, Tensorflow, Flask

- Classifies bird images with convolutional neural networks and web interface

**Personal Website** 🔗 | Typescript, React.js

- Personal portfolio site, deployed on Vercel