

# Eric Semeniuc

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## Academic Summary

**School:** UBC **Degree:** BSc (Hons) Computer Science **Year:** 4 **Expected Grad:** May 2020 **GPA:** 3.64

## Areas of Proficiency

- Languages: C, C++, Elixir, Erlang, Go, Java, JS, Ruby, Python, Scala, SQL
- Web: Apollo, Flask, GraphQL, Phoenix, Play, React, Ruby on Rails, Spring
- ML/System: Docker, Julia, Kubernetes, Numpy, Pandas, PostgreSQL, PyTorch

## Professional Experience

### **Software Engineer Intern at Salesforce**

Jun 2019 to Aug 2019

- Developed full-stack release management portal to track and manage SayonaraDB lifecycle
- Reduced data lookups by 80% by consolidating spreadsheets into single GraphQL API
- Codified business processes for release staggers and stages into single document

### **Software Engineer Intern at Facebook**

May 2018 to Aug 2018

- Designed, developed, and pushed full-stack supplier messaging system to production
- Streamlined bid lifecycle by integrating message history and attachments into the bid
- Enabled improvements to scaling and uptime by eliminating Oracle APEX

### **Software Engineer Intern at Salesforce**

May 2017 to Aug 2017

- Developed server health monitoring service with Spring framework and Refocus
- Achieved near real-time reporting using delta updates and Kafka streaming
- Optimized 99<sup>th</sup> percentile response times by 50% by contributing fixes to internal tools

### **Systems Admin/Software Developer at LEAP Learn**

Sep 2013 to Aug 2015

- Secured Debian production servers with new security, backup, and recovery measures
- Improved visibility of student progress with custom formative assessment system
- Reduced instructor workload by implementing and managing Moodle eLearning system

## Leadership and Awards

- Awarded Dean's Honour Roll in the Faculty of Applied Science at Simon Fraser University
- Awarded Excellence in Physics at Simon Fraser University by Physics Faculty Chairman
- Won "Best use of AWS" award at Angelhack Seattle out of 30 teams based on our project, providing actionable health suggestions and daily and weekly graphs of team happiness
- Achieved 15th place at ACM-ICPC 2018 out of 85 university teams in the Pacific Northwest
- Competed and successfully launched 10K ft. solid fuel rocket at Spaceport America 2018

## Projects

- **jetDB** (C++, PostgreSQL): A centralized flight booking and tracking system. Supports multi-hop flights, code-sharing, group bookings, and least cost path finding
  - Automatically buffers and reconnects on unreliable connections with ZeroMQ
  - Extensible JSON interface with GUI and CLI clients. Bonus received for features
- **distChat** (Go): A distributed, end-to-end encrypted anonymous chat network with encrypted rooms and admin capabilities. Received bonus, top 5 project of the class
  - DDOS resilient via peer sharing and flooding, ideal for hostile environments
  - Secure server-server communication with RPC over TLS to prevent tampering

**Interests:** Options trading, ACM problems, snowboarding, motorsport