

# Eugene Shen

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## SKILLS

### Technologies:

Git • Kubernetes • Terraform • Kafka • SQL

### Languages, over 10000 lines:

Python (Django Rest Framework, Tornado)

JavaScript (TypeScript, Node.js, React) • Go

### Languages, over 1000 lines:

C++ • Ruby (Rails) • Java (Android) • Shell • C

## COMPETITIONS

16th/4046, IEEEExtreme Nov 2018

8th in Div. 1, ACM-ICPC Pacific NW Nov 2017

2nd in Div. 2, ACM-ICPC Pacific NW Nov 2015

4th/1706 in Round One, NACLO Mar 2015

2nd in Western Canada, CCC Jan 2014

## EDUCATION

### UNIVERSITY OF BRITISH COLUMBIA

#### Bachelor of Applied Science

Major in Engineering Physics

Computer Science GPA: 96.1% (4.33/4.33)

Sept 2015 - May 2020; Vancouver, Canada

## SCHOLARSHIPS

Trek Excellence Scholarship (2016, 2017, 2018)

Charles and Jane Banks Scholarship (2018)

John Collison Mathematics Memorial S. (2018)

EXPO 86 Scholarship (2016)

Sir Winston Churchill Shield (2015)

R. A. Pyke Mathematics Memorial S. (2015)

## COURSES

### COMPUTER SCIENCE

Intermediate Algorithm Design/Analysis (95%)

Intro to Computation/Programs (Racket) (93%)

### COMPUTER ENGINEERING

Real-Time Operating Systems (100%)

Digital Systems and Microcomputers (100%)

Operating Systems (90%)

Principles of Software Construction (98%)

Intro to Computation for Engineers (C) (98%)

### MATHEMATICS

Applied Linear Algebra (96%)

Probability and Stochastic Processes (94%)

Multivariable and Vector Calculus (93%)

Applied Partial Differential Equations (89%)

Signals and Systems (98%)

## WORK EXPERIENCE

### ROBINHOOD

August 2021 - Present

Software Engineer II, Crypto  
Menlo Park, California, United States

- Co-lead of the technical phone screen interview stream across all Robinhood.
- One of three lead organizers for the 2021 internal Robinhood puzzlehunt.
- Created an error account to recover millions of dollars in fraud trades.

June 2020 - July 2021

Software Engineer I, Crypto  
Menlo Park, California, United States

- Coordinated SEV response as primary oncall during all major 2021 incidents.
- Directed scaling efforts in response to these incidents, in lieu of a direct manager, to handle 30x notional volume and 10x QPS in four months.
- Helped grow engineering team 10x by onboarding all new engineers with daily office hours and creating the first crypto onboarding experience, which includes comprehensive setup checklists, documentation on every flow, and four hours of onboarding videos.
- Primary domain expert for the crypto settlement, notification, and tax flows. Scaled settlement processes to handle >100x notional volume.
- Host of the PostgreSQL book club, a Slack channel with over 100 members.
- Designed an event aggregation daemon that reduced Kafka load by 1000x.
- Reduced number of hours spent on oncall issues by 4x, by adding runbooks to every alert and gathering consensus to spread out oncall responsibilities.
- Co-lead of the algorithms interview stream across all of Robinhood.
- Migrated the crypto notification flow to a new internal service, collaborating with the notification service team to become their first upstream producer.
- Led engineering scoping to untangle the crypto business from the brokerage.

### FLEXPORIT

June 2019 - Aug 2019

Software Engineering Intern, Airfreight  
San Francisco, California, United States

- One of two engineers that implemented the Ruby on Rails backend to ingest the contents in all of Flexport's air carrier contracts and flight allotments.
- Designed and realized a denormalized table of all available flight instances.
- Advised data science on optimally assigning shipments to flights, using my table as the source of truth, potentially saving millions of dollars a month.

### GOOGLE

May 2018 - Aug 2018

Software Engineering Intern, Cloud/Node.js  
Sunnyvale, California, United States

- Made a TypeScript library encapsulating the Stackdriver Debugger REST API.
- Developed a service for ndb, a debug adapter for Visual Studio Code, and a proxy server and Chrome extension for Chrome DevTools using my library.

### NEXEDI

Jan 2017 - Apr 2017

Software Engineering Trainee (Stagiaire)  
Lille, Hauts-de-France, France

- Prototyped an internal chat app using WebRTC within Nexedi's ERP5 system.
- Created the official tutorial for using Nexedi's Render JS and jIO frameworks.

### UBC

Jan 2016 - Apr 2016

Teaching Assistant, Intro to C for Engineers  
Vancouver, British Columbia, Canada

- Marked 70 labs a week and wrote a Python script for automatic compilation.