

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

June 2020 - Present

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

- One of three crypto engineers until January 2021. Joined with no product manager and no engineering manager, so often ran sprint planning, organized resources, represented crypto-eng to stakeholders, etc.
- Coordinated immediate incident response as primary oncall (coincidentally) during all four major incidents in 2021: January DOGE spike, GameStop short squeeze, April DOGE spike, and Elon on Saturday Night Live.
- 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.
- Reduced number of hours spent on oncall issues by 4x, by adding runbooks to every alert and gathering consensus to spread out oncall responsibilities.
- Onboarded over 20 crypto engineers within six months to our systems and culture, by hosting daily office hours and creating a crypto onboarding experience from scratch that includes comprehensive setup checklists, documentation on every flow, and four hours of onboarding videos.
- Primary domain expert for the crypto settlement and notification flows.
- Co-lead of the algorithms interview stream across all of Robinhood.
- One of three lead organizers for the 2021 internal Robinhood puzzlehunt.
- Host of the PostgreSQL book club, a Slack channel with over 100 members.
- 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.
- Designed an event aggregation daemon under high pressure in the January DOGE spike that reduced Kafka load from settlement events by 1000x.
- Created an error account to recover \$100k per week in unauthorized trades.

FLEXPORT

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 RenderJS 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.