

# Jordan Yu

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## SENIOR SOFTWARE DEVELOPER

Technical backend expert delivering reliable infrastructure.

Ex-Google software developer with ~8 years in all levels of backend software development. Direct experience with cloud infrastructure (AWS, GCP), database management (SQL, NoSQL), web protocols and data exchange (REST/RPC/JSON/Protobufs). Known as an excellent communicator and collaborative team member working with technical and non-technical staff to relay and document features across the organization.

## EXPERIENCE

### COURSE HERO Vancouver, BC

2021-2023

Senior Backend Software Engineer - Payments Infrastructure

- Migration of legacy subscription platform onto 3rd party system (Recurly)
- Silent migration affecting 2+M users and 1k+ daily payments
- Automated process to ingest 500K+ transactions for financial revenue recognition
- **Tech:** PHP, Symfony, AWS, K8S, Golang, Recurly, Paypal, Braintree

### GOOGLE Mountain View, CA, USA

2015-2020

Senior Software Engineer - Dialogflow/Google Assistant

2018-2020

- Developed backend services for custom natural language processing (NLP) chatbots
- Developed Java APIs for Designtime service processing 1M+ model edits per day
- Silent migration from GCP to Borg, 99% uptime through monitoring, daily regression/AB tests
- **Tech:** Java, Spanner, Bigtable, GCP, RPC

Software Engineer, Tools and Infrastructure - AdSpam

2015-2018

- Regression, performance tests, build and release infra for Ads spam filtering pipelines.
- Maintained large scale (10+ services) on-demand testing infra for online spam pipeline.
- Mentored 3 interns, providing guidance, outlining project scope, weekly 1:1 meetings
- Google 20% - Internal diff tool (Bagua) ran 1K+ daily regressions tests for 100's teams
- Implemented parallel processing pipeline (c++), web frontend UI components (Python/JS).
- **Tech:** C++, Python, JS, Golang, Bazel, Spanner, Bigtable, Cloud(borg)

## TECHNICAL SKILLS

	Professional (2-3+ years)	Beginner (~1year)	Personal (0-5 years)
<b>Languages</b>	Python, Go, Java, PHP	C/C++, Javascript	Rust (3mo)
<b>Web</b>	Symfony, JSON	HTML/CSS,JS React,Angular	Node, OAuth
<b>Infrastructure</b>	GCP, SQL Relational (MySQL, Spanner) NoSQL (Bigtable)	Kubernetes, AWS	
<b>Tools</b>	Git, VSCode, Slack	New Relic, Datadog,Bazel	Vim, Android Studio, Linux, Docker, Unity3D
<b>Misc</b>	Braintree, Paypal, Recurly		OpenGL, Graphics, SDL Spine

## Internships

<b>A Thinking Ape</b> Vancouver, BC, Software Engineer Intern - Unity3d game developer prototyping a multiplayer RPG game.	2014
<b>IBM</b> Victoria, BC Web Software Developer - Client/Server web applications for LotusNotes	2014
<b>SAFE SOFTWARE</b> Surrey, BC Build and Release Intern - Manual and automated testing of geospatial software suite	2013
<b>LATITUDE GEOGRAPHICS</b> Victoria, BC Quality Assurance Intern - Manual regression, integration testing of geospatial software	2012

## Education

**Bachelors of Software Engineering**, University of Victoria, Grad. 2015

- Computer Networks, Computer Architecture, Operating Systems, Databases, Graphics
- Data Structure and Algorithms, Algorithms for Hard Problems, Programming Languages
- Software Development Methods (Design Patterns, Models, Requirements, Quality Engineering)
- Discrete Mathematics, Statistics, Time Signals and Systems

## Personal Projects

### Arknights Chibi Bot

- <https://akchibibot.stymphalian.top/>
- A twitch bot and browser source overlay to show chibis walking on your stream.
- Viewers issue text commands in chat to change the sprite, do different animations, etc
- **Tech:** Golang, JS/HTML/CSS, Twitch API, Spine, PostgreSQL, Docker

### Personal AI/ML Library

- <https://github.com/Stymphalian/saiml>
- From scratch implementation of AI/ML algorithms and data structures with numpy.
- Some features include convolutions, transformers, diffusion and autograd.
- **Tech:** Python, numpy, cypy/cuda