# <mark>Alan</mark> Wu

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## SKILLS

#### Languages

Golang, Java, Python, Ruby, JavaScript, NodeJS, PHP

DataStores MySQL, PostgreSQL, Redis, Kafka, Elasticsearch, MongoDB Frameworks ReactJS, Java Spring, GraphQL, Ruby on Rails, Flask

Cloud & DevOps Kubernetes, Linux, Bash, Git, GCP, AWS, Docker, Jenkins, TCP/IP

### WORK EXPERIENCE

Software Engineering Intern Meta (Facebook)	Sept. 2021 - Preser
<ul> <li>Build collaborative ads with Hack and ReactJS to empower brands to run dynamic ads for catalog sales or conversions objectives</li> <li>Developed monitoring of latency and error rate for API and GraphQL endpoints and created dashboards and alerting through Python</li> </ul>	Vancouver, B
Software Engineering Intern <b>Yahoo</b>	July 2021 - Aug. 202
<ul> <li>Built global ad platforms and search services on Yahoo with ML and full stack development in Java and Python</li> <li>Trained context-aware NLP model to serve content recommendations and ads with Golang gateway on publishers website</li> </ul>	Taipei, Taiwa
Software Engineering Intern Tesla	Jan. 2021 - Apr. 202 Waterloo, O
<ul> <li>Built distributed systems and pipelines for real-time vehicle data streams with Python and AWS for global fleet metrics analysis</li> <li>Designed and collaborated cross-team to develop Java Spring API for reliable feature releases and milestone rollouts</li> <li>Developed Golang microservices to process metrics from over 1.5 million vehicles and visualized timeline with ReactJS and D3</li> </ul>	waterioo, or
Software Engineering Intern Apple	June 2020 - Sept. 202 Vancouver, B
<ul> <li>Created full stack solution to deliver Apple Maps core services and data to Kubernetes clusters and over 2.2 billion devices</li> <li>Researched and implemented load balancing algorithm with Ruby, Perl, and Nginx to improve data delivery time by 50%</li> <li>Spearheaded API development and UI design to reduce 40% of SRE workflows by automating with JavaScript and Rails</li> </ul>	vancouver, B
Production Engineering Intern Shopify	Sept. 2019 - Dec. 201
<ul> <li>Engineered tooling and platforms to manage Kubernetes on Google Cloud with over 80 clusters and 700 deployments</li> <li>Developed jobs to monitor over 400+ SQL database performance and defined SLO to ensure 99% service availability</li> <li>Improved fault tolerance by reducing DNS resolution time by 90% to reliably handle 180k requests per second during disruption</li> <li>Built Kubernetes controllers in Golang with caching and multithreading to manage custom datastores such as MySQL and Redis</li> </ul>	Ottawa, Ol
Software Engineering Intern BlackBerry	Jan. 2019 - May 201
<ul> <li>Built Ruby on Rails microservices and gather stakeholders requirements to provide cloud computing and monitoring services</li> <li>Trained NLP models with 91% accuracy and integrated the AI chatbot with APIs to streamline CI/CD pipeline and Agile cycle</li> </ul>	Waterloo, O
STARTUP	
Crypto Arsenal   crypto-arsenal.io	May 2020 Proper

May 2020 - Present
CTO of a SaaS platform for 1000+ quants and traders to backtest, simulate, and live-trade with algorithmic quantitative strategies
Designed NodeJS and Python microservices with RabbitMQ messaging, gRPC, and MySQL to interface with crypto exchanges

#### **EDUCATION**

#### **University of Waterloo**

Management Engineering | April 2022 □ Cumulative **GPA of 3.70** □ Algorithms and Data Structures, Software and Database Design, Data Warehousing and Mining, Networking, Optimization Models