

# Alex Wu

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## Technical Skills

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**Languages:** Python, Go, TypeScript, JavaScript, Java, C++, C, HTML, CSS, SQL, Bash

**Frameworks:** React, Next.js, Flask, Django, Angular, PyTorch, TensorFlow, Node.js, Express, Jest

**Tools:** Amazon Web Services (AWS), Google Cloud Platform (GCP), MongoDB, Jenkins, Docker, Git, Terraform, GraphQL

## Experience

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### SAP

May 2025 - Present

Software Engineer Intern – SAP Analytics Cloud 🌐

Vancouver, BC

- Building internal developer tools and maintaining DevOps infrastructure for the SAP Analytics Cloud
- Maintained CI/CD pipeline and triaged build/deployment issues using **Jenkins, Docker, Terraform, & Cloud Foundry**
- Enhanced a VSCode extension using **TypeScript & Go** to track commit statuses across **GitHub/Gerrit**, reducing manual checks and improving deployment visibility for **1,000+** internal developers
- Built a microservice using **TypeScript** to automatically detect and remove hundreds of deprecated feature flags, reducing cleanup time from **10+ hours to under 5 minutes**

### Meta (HCLTech)

May 2024 – Dec 2024

Software Engineer Intern – Silicon Validation 🌐

Vancouver, BC

- Worked at Meta as a contingent worker on the Silicon Validation team through HCL Technologies
- Maintained existing testing frameworks using **Python/C++** to automate silicon validation for Meta's Training and Inference Accelerator (MTIA) chips
- Developed a telemetry dashboard using **Python** and **Presto (SQL)** to visualize test coverage statistics from ASIC emulators reducing triaging by **6–8 hours** per week
- Integrated Meta's testing pipeline with internal web services using **GraphQL** endpoints and **Hack (PHP)** functions leading to an automated validation workflow

### SupportingLines

Jan 2024 – Apr 2024

Software Engineer Intern – SupportingLines Cloud 🌐

Vancouver, BC

- Implemented **WebSockets** in a **Next.js** client dashboard to stream live report data improving real-time responsiveness for **500+** users across **100+** client teams
- Reduced manual report processing time by **80%** by building a serverless workflow using **Python, Qualtrics API, Google Cloud Functions**, and **GCP buckets**
- Integrated k-means clustering into a **Python** report generator using **Pandas** and **scikit-learn**, automating pattern detection across **1,000+** employee survey responses

### Pacific Laboratory for Artificial Intelligence (PLAI)

Sep 2023 – Dec 2023

Research Assistant – PLAICraft 🌐

Vancouver, BC

- Assisted a team of graduate students with developing a custom minecraft server using **Java** and **AWS** to collect over **10,000+** hours of recorded gameplay used to train a denoising diffusion probabilistic model
- Reduced login latency from **9 seconds to 3 seconds** by building a cloud-connected Minecraft mod that tracked and restored player locations using **AWS Lambda** and **DynamoDB**
- Boosted training throughput by **60%** by building a custom **PyTorch** Dataset and DataLoader pipeline that streamed gameplay data directly from **Amazon S3** with parallel batch loading and dynamic batching

## Projects

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**TypeTalk** 🌐 | Claude AI, AWS Bedrock, AWS Lambda, Next.js, FastAPI

- Created an AI chatbot using **AWS Bedrock** that allows users to interact with 16 MBTI-based personalities

**NBA Fantasy Draft Simulator** 🌐 | Java, Java Swing, JUnit 5

- Built both a terminal and GUI-based application using **Java**, applying Object-Oriented Design patterns (Singleton)

## Education

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### University of British Columbia

Expected Graduation: May 2027

Bachelors in Computer Science and Business, Co-op

Vancouver, BC

- **Key Courses:** Algorithm Design & Analysis, Computer Hardware and Operating Systems, Relational Databases
- **Extracurricular:** Developer for UBC UX Hub 🌐 (**Stripe API**), Enactus UBC 🌐 (**Next.js**), & UBC BizChina 🌐 (**Next.js**)