

Jeremy Fong San Pin

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SUMMARY

Senior Developer with 5+ years of experience in Software and Platform Engineering, specializing in **Cloud & AI Infrastructure**, and workflow automation. Pursuing opportunities in **Cloud Infrastructure, Devops or as Site Reliability Engineer**.

WORK EXPERIENCE

Sep 2024 - Present **Ericsson Canada | Ottawa**
Senior Cloud RAN Software Developer JS6

- **Architected, led and delivered** multiple infrastructure initiatives on AWS revolving around generative AI, focusing on scalability and orchestration including:
 - Personalized AI agent concept to support individual workflows while integrating with shared enterprise capabilities via A2A/MCP protocols, provisioned through IaC (CloudFormation and Terraform)
 - Autonomous debugging agent for log analysis and root-cause identification
- **Drove optimization of end-to-end DevOps workflows** in both cloud and embedded systems by automating remote radio operations, implementing centralized observability and monitoring, and delivering CI/CD pipelines. Also, owned production charts for customer deployments.
- Led implementation of **automated test frameworks** for radio fault injections using Ansible, now widely adopted, saving hundreds of hours of testing and delivery delays
- **Drove self-initiated cross-functional (researcher-engineer) collaboration** to integrate CPU resource management research using NRI plugins into cloud platforms (OCP, CNIS) with production rollout
- **Led 3 self-directed innovation initiatives**, presenting demos to audiences of several hundred:
 - Team Lyra (team of 10): Developed AI/LLM frameworks leveraging Retrieval Augmented Generation (RAG) and Model Context Protocol (MCP) for large-scale retrieval and testing automation
 - Log Monitoring (team of 4): Transitioned our legacy system to cloud-based logging
 - Stability Lab (team of 3): Created a CLI-based UI to help developers test E2E and soak code
- Inventor on **two patents**: one granted (AI/ML Enhanced Energy Efficiency) and one pending (TR Analyzer)
- Awarded **Key Contributor** for leading automation, cross-team collaboration, and self-initiated projects

May 2022 - Sep 2024 **Ericsson Canada | Ottawa**
Cloud RAN Software Developer JS5

- Served as the **go-to expert for Helm Chart** implementation leading 4 key customer requested projects (global, FDD/TDD, unit test, network type) supporting over 20 microservices, 7 teams
- **Tested and integrated Cloud RAN vDU deployments** using Helm, Kubernetes (OpenShift), Netconf, and shell automation, executing hundreds of hours of rigorous validation
- Developed inter-service communication for Cloud RAN Baseband/RDM using grpc, C++ & Go
- Contributed to 3 AI projects: AI for Cell Shaping, Energy Efficiency, GenAI/ChatGPT
- Conducted several live virtual demonstrations to audiences of hundreds of participants

**Aug 2020 -
Oct 2022**

Wink & City Streets Startups | Montreal
Founder

- Created & deployed a distributed geolocation API using GraphQL and Node JS
- Built service and website using Django and deployed staging and production on AWS
- Bootstrapped, acquired customers, admitted into accelerators and obtained >\$500k in financing
- Founded City Streets which was acquired by Wink Messenger

**Jan 2020 -
May 2020**

Insight Bootcamp | San Francisco
Artificial Intelligence Fellow

- Built and trained RL agents for autonomous driving tasks using the Carla self-driving simulator
- Implemented a curriculum learning strategy, improving model performance by ~20%
- Scaled distributed RL training on AWS EC2, and hands-on experience using AWS SageMaker
- Applied core ML disciplines in CV and RL to real-world self-driving systems

2016 - 2019

Concordia SAE Formula Electric | Montreal
Team Captain & Founder

- Converted combustion system into electric and created school's first prototype electric car
- Managed and lead 40 members in both technical and business aspects of the project
- Designed, analyzed, manufactured and tested entire chassis for final year project (placed 1st)

PERSONAL PROJECTS

Deployed Proxmox home lab for the following applications:

- Deployed k3s application (n8n) with HA proxy, Traefik, FluxCD, SOPS, Redis and Postgres
- Provision all VMs using Terraform, Packer
- Working on deploying Home Assistant and network security training (Kali)

Developed multiple custom mobile applications (budget, fridge, chatbot, space dots)

Algorithmic Trading Bot for automatic stock trading using Oanda's api and machine learning

Obtained the Coursera online certification for **Self-Driving Car Complete Specialization (96 hours)**

EDUCATION

2021 - 2025

Master of Science - University of Texas at Austin
Data Science

2015 - 2019

Bachelor of Engineering - Concordia University
Systems & Mechatronics
Awarded: Richard M.H. Cheng Design Award

2010 - 2014

Bachelor of Commerce - John Molson School of Business
Marketing & Finance

SKILL PROFILE

Bilingual: English (Native), French (Native), Mauritian Creole (Native)

Programming Languages: Python, Go, Bash, C++, Typescript, Dart

Cloud: Kubernetes, Helm, Docker, AWS, Loki, Grafana, Prometheus, Ansible, Jenkins, Terraform, FluxCD

Software/AI: Linux, gRPC, Postgres, Redis, Networks, Agile, Bazel, Pytorch, LLM, RAG, MCP