

FELIX CARON PARE

Software engineer - Quebec, QC, CA

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SKILLS

Languages: Python, Typescript, Javascript, Golang, Node.JS, C#, Java, C++, PHP, ASM

Frameworks and libraries: React, Vue, NextJS, Astro, Vite, Django, Jest, gRPC, Pandas, NumPy, Matplotlib

Tools & technologies: Git, Github, AWS, Azure, Docker, Kubernetes, Terraform, Linux, Postman, GPT, Llama

Databases & Web: SQL, Postgres, NoSQL, HTML/CSS, Tailwind CSS, Material UI, Bootstrap, HTTP/2

EXPERIENCE

MLOps engineer

2024 – present

Quebec Ministry of Transports

Quebec, QC, Canada

- Training (fine-tuning & prompt engineering), deploying and maintaining AI models, apps and endpoints for the organization's business needs with the use of Python, Django, Azure, Azure ML, Kubernetes, etc.
- Took charge of setting up and securing our Azure environments and pipelines necessary for AI/ML development and with appropriate CI/CD workflows (Azure, Git, Github Actions, Docker)
- Building the Infrastructure as Code (IaC) to streamline deployment and management of cloud resources for AI/ML apps

Freelance web developer

2024 – present

Self-Employed

Quebec, QC, Canada

- Developing websites and web applications as a freelance full-stack developer
- Developed a speed and SEO optimized website with React, Typescript, Astro, Vite and Tailwind for the company Vitae Comptabilite: vitaecomptabilite.com

Full-stack AI developer

2022 – 2024

Quebec Ministry of Transports

Quebec, QC, Canada

- Developed a full-stack internal generative AI application with Python and Django that HR uses to create job posting forms, which greatly improved the process's productivity
- Created an internal Python and AzureML application that identifies and redacts protected data in a variety of file formats using AI (OCR) and REGEX, securing and speeding up the data collecting process by orders of magnitude

Bridge Engineer

2018 – 2022

Quebec Ministry of Transports

Quebec, QC, Canada

- Co-Developed a Python data visualization tool for the corrosion of the Pierre-Laporte Bridge (longest suspension-bridge in Canada) main cables
- Programmed engineering worksheets to compute the load bearing capacity for 15 bridges over 4 years
- Led and managed the inspection of 21 severely degraded bridges, coordinating internal and external teams

Junior Bridge Engineer

2016 – 2018

Stantec Consulting Ltd.

Montreal, QC, Canada

- Led site engineering audits for the construction of the New Champlain Bridge and 11 other associated bridges within a 2-year timeframe (one of the largest canadian infrastructure projects ever), exceeding industry standards by 480%

PROJECTS

Multiplayer Unreal Project | Golang, UE5, Docker, Kubernetes, AWS, gRPC/Protobufs, Postgres

Present

- Building an instance-based online RPG in Unreal Engine 5 (C++) using authoritative game servers.
- Developing a microservice architecture backend with Golang and AWS services, using gRPC & protobufs for netcoding.
- Containerizing Linux UE5 game servers with docker & orchestrating their deployment with Kubernetes, Agones & AWS.

ugram.uk | React, Typescript, HTML/CSS, Node.JS, PostgreSQL

2024

- Co-developed an AWS-hosted single-page app inspired by Instagram
- Personally contributed a Full-stack and DevOps role to the team, developing tech on all aspects of the project (Frontend, Backend, REST API, search & sort algorithms, AWS hosting and CI/CD.)
- Fully automated CI/CD pipeline with Docker, Github Actions, Jest and AWS services.

EDUCATION

Laval University

2024

Cert. in Computer Science (3.93/4.33 GPA)

Quebec, QC, Canada

Laval University

2016

BS in Civil Engineering

Quebec, QC, Canada