

Pradhapan Rajendran

✉ dev@pradr.com 🌐 pradrx
📞 (647) 819-1363 🌐 pradhapanr

Skills

Languages Python, Go, JavaScript, Ruby, C, C++, Java, C#, HTML/CSS, SQL
Technologies React, Node.js, Express, Flask, NestJS, Ruby on Rails, AWS, Azure, Terraform, Docker

Experience

Meta

Software Engineer

August 2024 - Present

New York, NY, United States

- Enabling ML engineers to build and train the LLaMA series of models by designing and optimizing infrastructure for the efficient sourcing, ingestion, and management of large-scale multi-modal datasets.

Wealthsimple

Software Engineer Intern

May 2024 – August 2024

Toronto, ON, Canada

- Wrote a new Airflow task in Python that fetches and uploads the IDs of upgradable customers to S3 in a CSV, eliminating 30,000 network requests each day, and speeding up execution time by 90%.
- Parallelized our core upgrade workflow in Ruby by spawning a pool of workers and assigning upgrade jobs for each customer ID, leading to a 5x increase in upgrade speed.

Snowflake

Software Engineer Intern

May 2023 – August 2023

San Mateo, CA, United States

- Created a Go library for diffing JSON trees, enabling custom equality definitions for specified properties and the canonicalization of objects to facilitate comparisons of nonstandard data types.
- Propagated approvals of Terraform plans across 150 deployments by comparing and matching pending changes to previously applied ones, reducing weekly manual review time from 3 hours to < 5 minutes.

Amazon Web Services (AWS)

Software Development Engineer Intern

January 2023 – April 2023

Vancouver, BC, Canada

- Developed an open source infrastructure as code solution to simplify the authoring, packaging, and deployment of GraphQL APIs on AWS with features like automatic policy management and resolver code generation.
- Built a template validation algorithm in Python that compared user YAML files against AWS resource schemas, eliminating 80% of common user errors from deployment of services.

Amazon Web Services (AWS)

Software Development Engineer Intern

May 2022 - August 2022

Vancouver, BC, Canada

- Constructed a new AWS service that provides and manages simple, well-scoped permission presets for serverless application resources to determine how data and events should flow between those resources.
- Implemented a drift detection API in Java and Python to identify and restore misconfigured service permissions in complex service architectures to healthy working states in < 1 minute.

ApplyBoard

Software Engineer Intern

September 2021 - December 2021

Waterloo, ON, Canada

- Lead production of an internal data import service, using TypeScript to parse Excel documents with customer information and convert them into user profiles, reducing account creation times by 85%.
- Refactored old React modules in JavaScript with modern practices including functional components and hooks, resulting in 50% faster load times and improved readability.

Projects

Clouseau | Python, Flask, SQLite

- GitLab contribution tracker that generated analytics dashboards for commit history, code reviews, and merge requests to identify equal work completion in group assignments.

GPX Master | C, JavaScript, Node.js, Express

- A GPX file editing utility that allows users to create, search, measure, and visualize travel routes using depth-first search and the Haversine formula.

Education

University of Guelph

Bachelor of Computing, Computer Science (Co-op)

September 2019 - June 2024

Guelph, ON, Canada