

Amirreza Radjou

Toronto, ON | amirreza.radjou@gmail.com | linkedin.com/in/amirreza-radjou | github.com/amirradjou | amirradjou.com

PROFESSIONAL SUMMARY

Software Engineer with 4+ years building backend services and distributed systems. Strong in Go and Python across microservices, gRPC/REST/GraphQL APIs, service mesh, and consensus/peer-to-peer protocols. Proven in regulated banking and research settings, with solid testing, CI/CD, and containerized delivery; comfortable full-stack with Vue.js and React.

TECHNICAL SKILLS

Languages: Go, Python, TypeScript, JavaScript, Java, Rust, SQL

Backend & APIs: gRPC, Protocol Buffers (buf), REST, GraphQL, Django, Flask

Distributed Systems: Microservices, service mesh, peer-to-peer (IPFS), consensus & blockchain protocols (Substrate/Polkadot)

DevOps & Platforms: Docker, Kubernetes, OpenShift, Helm, Istio, Jenkins, GitHub Actions, Azure, CI/CD

Data Stores: PostgreSQL, Azure Blob Storage, ETL/ELT pipelines, custom data loaders

Frontend: Vue.js, React, TypeScript, HTML5/CSS3

Testing: JUnit, pytest, Cypress (e2e)

Security: API security & mTLS, threat modeling, penetration testing, cryptography

PROFESSIONAL EXPERIENCE

CIBC

Senior Full Stack Developer

Toronto, ON

March 2026 – Present

- Primary developer rebuilding MCBR, a legacy merchant-rules platform, as **Go** microservices and batch jobs on **OpenShift** — gRPC services, SOAP compatibility adapters, and **Azure Blob Storage** integration.
- Built and maintain **Helm** charts for MCBR and the Enterprise Product Catalog (EPC) across dev/SIT/UAT (**Istio** VirtualServices for gRPC, ConfigMap-driven config), deployed through **Jenkins** pipelines.
- Hardened REST and **gRPC** endpoints with an OpenShift **service mesh** (mTLS, traffic policies, observability) for zero-trust communication between microservices.
- Onboarded new product models — including **Simplii Financial** — and a benefits API into EPC, the multi-brand product-data source business teams depend on; refactored its reference-data models.
- Authored shared **gRPC/protobuf** contracts (buf) for mortgage rate inquiry, product eligibility, and validation services; reviewed peers' gRPC and observability changes.
- Built a Layer7 API-gateway token CLI (mTLS, JWT decoding); authored Interface Agreements for partner teams.

Dandelion Network

Software Engineer

Remote

May 2024 – March 2025

- Built **Go** and **Python** backend services for a mobile wallet — REST, **GraphQL** (chat, transaction history), and **gRPC** inter-node communication — released through Jenkins CI/CD and Docker.
- Led the network simulator team, evaluating node and client behaviour under adversarial conditions (malicious nodes, weak connectivity, network delays) and simulated attacks.
- Developed Substrate/Ink! (**Rust**) smart contracts for multi-signature wallets and a secure Vault on Polkadot, hardened against reentrancy, with a Vue.js + TypeScript frontend.

York University

Research Assistant – Software Engineer

Toronto, ON

September 2022 – May 2025

- Extended CNSim, an open-source Java network simulator, with Bitcoin and IOTA/Tangle protocols for comparative analysis of distributed consensus systems.
- Introduced a Transaction Finality metric and pluggable node-behaviour strategies to benchmark protocols under attack scenarios; added JUnit harnesses, Python post-processing, and a visualization GUI.

SELECTED PROJECTS

CO₂ Emissions in Bitcoin Mining — Full Stack Developer

Academic, Sep 2023 – Apr 2024

- Built a full-stack app (React/TypeScript, Django/Flask, **PostgreSQL**) visualizing Bitcoin-mining CO₂ emissions as an interactive, time-ranged geospatial heatmap.
- Optimized in-browser rendering of large datasets via chunked delivery and precomputed cumulative aggregates; automated a daily multi-source ETL pipeline feeding a REST API.

go-orbitdb

Open Source

Go implementation of OrbitDB (peer-to-peer database on IPFS) with key-value, event-log, and document stores, replication for eventual consistency, and cryptographic access control.

EDUCATION

M.Sc. Computer Science, York University, Toronto, ON

Sep 2022 – Oct 2025

B.Sc. Computer Science, Amirkabir University of Technology, Tehran

Oct 2018 – Aug 2022