

Ray Manguino

Software Developer | Distributed Systems, GraphQL, APIs, AWS
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SUMMARY

Experienced software developer with 10+ years building scalable distributed systems, GraphQL/REST APIs, and event-driven services across cloud-native platforms. Known for reducing operational overhead, improving system performance, and driving high-impact architecture initiatives. Strong in Go, Typescript/Node.js, Postgres, and AWS, with a growing focus on practical AI applications.

EXPERIENCE

Tanium — Senior Software Engineer

2024 – 2025 | Remote (Canada)

- Launched GraphQL APIs adopted by 1,500+ customers, consolidating fragmented REST flows.
 - Reduced troubleshooting time for customer automations from ~1 hour to minutes.
 - Streamlined automation workflows and stabilized deployments, contributing to a 50% reduction in support call volume.
- Built monitoring and alerting systems that cut response times by 50% and reduced alert volumes by 70%.
- Postgres query performance tuning leading to 40% reduction page load times.

Tech: Golang, Typescript, Node.js, Postgres, GraphQL, Grafana/Prometheus

Nacelle — Senior Software Engineer

2022– 2023 | Remote (Canada)

- Architected and led delivery of a distributed, federated GraphQL schema registry powering custom APIs for dozens of merchants, indirectly supporting thousands of downstream customer experiences.
 - Delivered a schema ingestion pipeline, ensuring consistent performance.
 - Containerized service with CI/CD, observability, alerting.
 - Database performance tuning, caching, indexing.
- Built internal developer tooling that reduced local environment setup time from hours to minutes.
 - Adopted across engineering teams.
- Setup CI/CD pipelines (versioning, code coverage, test automation).

Tech: Typescript, Node.js, Postgres, GraphQL, Docker, Kubernetes, Datadog, Github Actions

Capital One — Senior Software Engineer

2017 – 2021 | Toronto, Canada

- On-boarded Canada to a greenfield cloud-based credit-card management system that launches new products to customers, preventing \$20M+ in annual losses.
 - Contributed backend Go services and led development of React UI and component library.
 - Led migration of CapitalOne.ca from on-prem to cloud infrastructure, improving reliability and customer acquisition.

Tech: Golang, Java, Typescript, Node.js, React, Postgres, Terraform, AWS (S3, Cloudfront, Lambda)

AI & PROJECT WORK

Job Discovery Automation Agent (Personal Project)

Node.js, OpenAI SDK, AWS Lambda, DynamoDB, SQS, CloudFormation

- Automated job discovery system that scans hundreds of job postings per day across multiple job boards.
- Uses an LLM-based ranking agent to surface 5–10 high-match roles daily, emailed automatically.
- Saves approximately 2 hours of manual searching per day through end-to-end automation.
- Runs fully serverless on AWS (SAM, Lambda, DynamoDB, SQS, ECS, Cognito), minimizing costs and enabling hands-off continuous operation.

SKILLS

Languages: Go, TypeScript/JavaScript, SQL, Java

Tech: GraphQL, REST, Node.js, Postgres, Kafka, Docker, Kubernetes

Cloud: AWS (Serverless Application Model, event-driven architectures), Terraform

Observability: Grafana, Prometheus, Datadog

Core Strengths: Distributed systems design, performance optimization, API architecture, developer tooling, observability, cross-team leadership, ambiguity resolution.

EDUCATION & CERTIFICATIONS

Bachelor of Computer Science – University of Waterloo

AWS Solutions Architect – Associate (2025)