

# Jack Clarke

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Backend software engineer with 3 years of experience building cloud-native platforms and automation systems in Java/Spring, Python, and Go. Delivered revenue-generating billing features, reduced infrastructure costs by 35%, and built AI-powered automation saving 60+ hours per month. Experienced in distributed systems, Kubernetes, Terraform, and backend platform tooling.

## Experience

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**Backend Software Developer** Solace – Ottawa, ON May 2023 – Present

- Implemented usage-based storage billing for 1,500+ cloud-hosted message brokers in Java/Spring, enabling revenue generation for a new storage feature
- Reduced message broker storage costs by 35% by optimizing event broker disk usage in Java/Spring
- Built an AI-powered ticket automation system in Python, saving 60+ support hours per month
- Built a Terraform provider in Go for Solace Cloud, enabling enterprise customers to manage infrastructure through Infrastructure as Code.
- Designed an OAuth authorization system for MCP tool calls, coordinating authentication flows across multiple Python microservices
- Built MCP and OpenAI tool builders in Python for Solace Agent Mesh Enterprise, enabling customers to integrate custom AI agents and tools
- Led a backend guild of 15 engineers, driving monthly knowledge-sharing sessions and code quality initiatives

**Software Developer Intern** Solace – Ottawa, ON Sept 2021 – Aug 2022

- Built a dynamic credential management system that enabled AWS Marketplace integration
- Automated Kubernetes deployment workflows using Python and Terraform, improving deployment consistency and reducing manual setup

## Technical Skills

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**Languages:** Java, Go, Python

**Frameworks:** Spring

**Cloud / Infrastructure:** AWS, Kubernetes, Terraform

**Concepts:** Distributed systems, microservices, OAuth, Infrastructure as Code, system design, MCP

## Projects

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**Competitive Snake AI** [github.com/m9p909/jacksnake](https://github.com/m9p909/jacksnake)

- Achieved a top 10% ranking among 400+ competitors by implementing Alpha-Beta pruning and optimized pathfinding algorithms in Go

**Claw MCP Server** [github.com/m9p909/claw-mcp](https://github.com/m9p909/claw-mcp)

- Built an MCP server in Go that enables AI chat interfaces to act as agents with persistent memory, file system access, and browser automation

**Distributed KV Store** [github.com/m9p909/eventuallyconsistentkvstore](https://github.com/m9p909/eventuallyconsistentkvstore)

- Built a prototype eventually consistent distributed key-value store in Clojure using consistent hashing for leaderless writes, replication across nodes, and quorum-based reads/writes

## Education

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University of Ottawa – BAsC, Software Engineering

Apr 2023