

Yousef Said

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SKILLS

Languages: Python, Go, TypeScript, JavaScript, Rust, C++, SQL, Starlark

Backend & Frameworks: REST APIs, event-driven architecture, ETL, Django, Flask, FastAPI, Express, Node.js

Build & Infra: Bazel (bzlmod, custom rules), Docker, Kubernetes, Terraform, Packer, Jenkins, GitHub Actions

Cloud & Data: AWS (Lambda, ECR, EventBridge, Inspector, S3, Athena, SQS, DynamoDB, IAM), PostgreSQL, Datadog

EXPERIENCE

Software Engineer II

Mar 2024 – Present

Arctic Wolf Networks Inc.

London, ON, Canada

- Architected end-to-end event-driven SBOM compliance infrastructure on AWS (ECR, EventBridge, Lambda, Inspector, KMS-encrypted S3, Athena), automating bill-of-materials generation and CVE scanning across containerized services.
- Own the Bazel build platform for a 500+ engineer monorepo, cutting CI build times 43% via a remote disk cache that reclaims an estimated 300+ build-hours per week.
- Led the Bazel 6 to 7 bzlmod migration across multiple repositories, modernizing dependency management for the entire monorepo with zero disruption to daily builds.
- Migrated 13 Jenkins build scripts from Python 3.9 to 3.13 using a shared build virtual environment, standardizing the CI toolchain and eliminating end-of-life runtime risk.
- Authored custom Bazel rules that cut container image sizes from 1.6 GB to 900 MB through layer caching and optimization, speeding builds and pulls across services.
- Built Bazel rules and internal APIs that automate AWS provisioning across the monorepo, creating ECR repositories, pushing images, and deploying Lambdas straight from the build.
- Co-built AGENTS.md, an LLM-powered CI diagnostics tool that ingests failure logs, build graphs, and commit context to output structured triage, cutting time-to-triage roughly 70% and auto-diagnosing about 30% of daily CI failures.

Software Engineering Intern

Sep 2023 – Dec 2023

Arctic Wolf Networks Inc.

Waterloo, ON, Canada

- Built an MBE (managed build environment) image handler from scratch on AWS (Lambda, SQS, DynamoDB) that tracks ECR image adoption and auto-opens upgrade PRs on each new image release, reaching 99% upgrade success.
- Integrated Bazel into the CI system, boosting pipeline efficiency 50% and cutting regression-detection times 60%.

Software Engineering Intern

Jan 2023 – Apr 2023

Super

Toronto, ON, Canada

- Integrated Qolo's payment API into the Super Cash product, building Python backend services and webhook event handlers to surface real-time balances to production users.
- Upgraded Datadog logging and monitoring across the payment flow, improving data accuracy and error detection.

Software Engineering Intern

Apr 2022 – Aug 2022

Arctic Wolf Networks Inc.

Waterloo, ON, Canada

- Built Django REST APIs and a Go/TypeScript security incident tracker, boosting client support efficiency 80%.
- Improved alert override performance by optimizing time-window conflict detection in security event processing.

PROJECTS

ICOM | *Python, Pydantic AI* | Winner, Arctic Wolf internal hackathon

- Built an AI incident commander that orchestrates triage, communication, and remediation during live incidents.

Sentinel Trace | *TypeScript, Next.js, Convex, OpenTelemetry, Anthropic SDK*

- Architected a real-time observability sidecar for multi-agent LLM pipelines, standardizing telemetry ingestion via OpenTelemetry GenAI conventions for enterprise-grade auditability.
- Built a persistent state backend on Convex capturing agent execution traces, enabling drift detection, latency analysis, and per-token cost tracking.

Shadow Architect | *Next.js, React Flow, Convex, Python, Anthropic SDK*

- Built a multi-agent system that turns infrastructure configs (AWS, Docker, Bazel) into interactive topology graphs.
- Developed a drift-detection loop that compares infrastructure state across runs to flag unapproved changes.

EDUCATION

Georgia Institute of Technology

Atlanta, GA, USA

Master of Science in Computer Science, Specialization in Artificial Intelligence (Part-Time)

Jan 2026 – Present

University of Waterloo

Waterloo, ON, Canada

Bachelor of Applied Science, Computer Engineering, GPA: 3.7

Sep 2019 – Apr 2024