Nathan Cote

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Available Starting June 2027 | Open to Relocation | Cloud Engineering & Solutions Architecture

EDUCATION

Worcester Polytechnic Institute – Worcester, MA — *Both Degrees Expected May 2027*
Master of Science in Computer Science - GPA: 4.0/4.0 — *(Accelerated 3-Year BS/MS)*
Bachelor of Science in Computer Science - GPA: 3.93/4.0

- **Dean's List All Semesters | Graduate Coursework:** MLOps, Network Security, DB Management, AI, Algorithms

EXPERIENCE

DevOps Cloud Intern – Pinnacle Technology Partners — *(20 hrs/wk in-term | 40 hrs/wk summers) Feb 2026 – Present*

- Managing infrastructure across 100+ client AWS accounts, working directly with client ops teams in biotech.
- Developer on an internal platform used across CloudOps to onboard clients and deploy infrastructure from one interface – Terraform scaffolding, Control Tower AFT, and CI/CD automation (GitHub Actions, CodePipeline).
- Rebuilt AWS Backup lifecycle policies across a client account, cutting backup spend by over $2,000/month.
- Built the model-switching feature for the platform's Bedrock AI assistant, preserving context on switch.
- Creating an automated LogicMonitor-ConnectWise config sync (EventBridge, Lambda) to replace a native integration limited to one active sync and ~7 runs/hour while preserving greater config detail.
- Designing a custom alert-ingest endpoint to populate ConnectWise ticket type/subtype/item and attach config records at creation, eliminating manual triage that yielded 65 tickets for a 40-device client during a major outage.
- Engineered an automated audit-and-purge script with dry-run and dependency checks, deregistering ~1,000 stale AMIs and EBS snapshots; modernized Lambda runtimes to Node.js 24 / Python 3.14 ahead of EOL deprecation.
- Built an alert pipeline (EventBridge, Lambda, DynamoDB, SNS) with debounce logic to eliminate duplicate alerts.
- Deployed S3 lifecycle policies on a clinical archive and event-driven tagging (Lambda, EventBridge) to cut spend.

STEM Aspire Program – Dell Technologies — *Aug 2025 – Dec 2025*

- Won the program's concluding presales pitch competition; earned the Dell GenAI Foundations certification.

Rethinking Livability in Venice with Island Level Indicators – SerenDPT — *Mar 2025 – Jun 2025*

- Partnered with SerenDPT to assess livability across all islands of Venice, co-authoring a 79-page research paper.
- Built a livability quiz (HTML, CSS, JS) with web scraping (Cheerio, Node.js) and geospatial analysis (Python, ArcGIS).

CERTIFICATIONS

Claude Certified Architect – Foundations (CCAR-F) — *Oct 2026*
AWS Certified Developer – Associate (DVA-C02) — *Aug 2026*
AWS Certified Solutions Architect – Associate (SAA-C03) — *Jul 2026*
AWS Certified AI Practitioner (AIF-C01) — *Apr 2026*

PROJECTS

Multi-Vendor Network Observability Platform – Microsoft and WPI — *Aug 2026 – Present*

- Building a scalable network observability platform with Microsoft PM mentorship as a year-long senior capstone.
- Declarative SONiC/ContainerLab/Docker simulated lab environment using Prometheus and Grafana to visualize.
- Currently includes SONiC image snapshots, drift detection, and automatic remediation with 0% packet loss.
- Research goal is to analyze telemetry data from all current/future vendors, using an LLM to normalize schemas.

Coffeedex – Serverless Coffee Logging Web App — *Jun 2026 – Aug 2026*

- Designed and deployed a fully serverless application on AWS with a Pokédex-style collection mechanic.
- Built the REST API with Lambda behind API Gateway; distributed with CloudFront; DynamoDB and S3 storage.
- Incorporated CI/CD practices using GitHub Actions and Terraform, with GitHub OIDC auth.

School Benchmarking Platform – Osprey Software and WPI — *Jan 2026 – Mar 2026*

- Agile engineering with React and Tailwind frontend, MongoDB and Express.js backend, alongside JWT for auth.
- Integrated the Web Speech API to streamline form entry and data collection, ensuring complete accessibility.

SKILLS

Languages, Frameworks, & Databases: Python, TypeScript/JavaScript, Java, C, Bash, Node.js, React, MongoDB, SQL
Cloud & DevOps: AWS (Lambda, Bedrock, S3, DynamoDB, EventBridge, IAM, Control Tower, CloudFront, CloudWatch, VPC, Backup, SSM, Config, CodePipeline), Terraform, Docker, GitHub Actions, Git, LogicMonitor, ConnectWise, Linux