

C SivaSubramaniyam

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Skills

- AI/ML (GPT-4, Claude), TensorFlow, PyTorch
- WebAssembly, WASI, Firecracker MicroVMs, Rust/C++
- Cloud-native platforms (AWS, GCP, Lambda@Edge, Kubernetes)
- FinTech systems (PCI-DSS, Kafka), HIPAA-compliant healthcare APIs
- Scalable platform design, NLP/NLU pipelines, LLM-powered services
- Developer experience: CI/CD, observability, DevOps automation
- Open Source evangelism: CNCF, Cilium contributor
- Public writing: byteshiva.medium.com, github.com/byteshiva

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|---------------|---------------------------|-------------------------------|-----------------------------------|
| AI & ML | LLMs (GPT-4, Claude) | PyTorch, TensorFlow | NLP/NLU |
| Languages | Go, Python, Rust | Bash, PHP | JavaScript |
| Backend | Serverless (WASM, Lambda) | Firecracker, Docker, WASI | Microservices |
| Frontend | React, Bootstrap | Tailwind | jQuery |
| Cloud & Infra | AWS/GCP, NixOS | Kubernetes, Docker | CI/CD, Observability |
| Security | HIPAA, PCI-DSS | Zero-trust (WASI, sandboxing) | OAuth2, TLS, CVE-free deployments |

Professional Experience

Stealth Startup

Director of Engineering, 2018 — Present

- Scaled LLM-powered underwriting platform (50K+ loans/day).
- Built HIPAA-compliant telemedicine API with 30% faster throughput.
- Designed Wasm modules with Rust/C++, deployed via wasmer AOT.
- Firecracker MicroVMs + NixOS infra: 5ms boot, 0 CVEs.
- Created serverless edge functions with <100ms latency.

Kore.ai

Technical Architect, 2016 — 2018

- Designed NLP pipelines for chatbot platform handling 10M+ messages/month with 92% accuracy.
- Migrated to AWS EKS, cutting infra costs by 40%.
- Integrated NLP/NLU for 50+ Fortune 500 clients.

Target Corporation

Lead Consultant, 2015 — 2016

- Scaled e-commerce (m.target.com) to 10M+ daily users during peak load.
- Built adaptive mobile platform for consistent UX across devices.

Polycom

Sr. Staff Engineer, 2012 — 2015

- Architected CloudAxis WebRTC Suite for 1M+ concurrent video sessions.

AT&T (USA)

PHP Web Developer, 2007 — 2008

- Built in-house CMS (5M+ pages), integrated telecom APIs.

Clearwire (USA)

Web Developer, 2008 — 2009

- Developed WiMAX RESTful APIs & Google Maps store locator.

Chevron (USA)

Sr. Web Developer, 2009 — 2011

- Created SAP xMII refinery dashboards handling 10TB/day sensor data.

HealthPlan Services (USA)

Web Developer, 2009

- Built broker portal for HIPAA-compliant insurance enrollments (250K+/year).

Visa Inc. (USA)

Web Developer, 2005 — 2007

- Automated PCI-DSS compliance for \$50B+ transaction platform.

State Street Inc. (USA)

System Developer, 2005

- Optimized risk modeling (Matlab) for security transactions.

Education

Bachelor of Computer Science

University of Madras
Chennai, Tamil Nadu, India

Master of Software Engineering

College of Engineering, Guindy,
Anna University, Chennai, Tamil Nadu, India

Certifications

Cilium Getting Started Isovalent

Credly Badge [@Certified by Isovalent](#)

Additional Information

- **Open Source Contributor:** CNCF, Cilium, GitHub/GitLab ecosystem.
- **Tech Blogger:** [@Tech Mastery: Learn Hands-On](#)
- **Dev Projects:** High-performance edge systems, AI chatbots, DevOps tools.