

Shyamalan Kannan

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EDUCATION

Seattle University

M.S. Computer Science, Data Science

Seattle, WA

Sep 2024 – Mar 2026

Presidency University

B.Tech Computer Science, AI & ML

Bengaluru, India

Mar 2020 – Jun 2024

EXPERIENCE

Software Engineer

Seattle University

Apr 2025 – Mar 2026

Seattle, WA

- Reduced C# application release cycles by 20% by designing CI/CD deployment pipelines and integrating automated security scanning that flagged vulnerabilities pre-deployment
- Cut manual delivery from weeks to hours by orchestrating automated build pipelines with AWS, TypeScript, and shell scripts, eliminating recurring configuration errors
- Collaborated across 3 teams (research, IT, operations) to design deployment strategies, writing 12+ infrastructure runbooks for repeatable releases

Software Engineer Intern

Finkey Consultancy Ltd

Jul 2023 – Oct 2023

Bengaluru, India

- Architected a Python/FastAPI financial data pipeline on AWS Glue, Athena, Redshift, and S3 processing 50K+ records across 15+ data sources, improving retrieval efficiency by 45% and supporting risk analysis on \$30K in capital exposure
- Developed PyTorch anomaly detection and volatility forecasting models with OpenAI API-driven summaries for real-time risk classification, cutting analyst review time by 40%
- Designed scalable REST API endpoints and ETL orchestration for ingesting, transforming, and querying structured financial datasets across distributed storage

PROJECTS

Ozark | Python, React 19, Vite, SQLite WAL, Agent Evaluation | ozark-iota.vercel.app

May 2026

- Built a local-first AI agent simulation lab with runtime guardrails, adversarial scenario testing, and deployment-readiness scoring across 5 dimensions (safety, task completion, security, latency, guardrail coverage)
- Built a Python backend and evaluation framework for trace replay/diffing, guardrail enforcement, and live HTTP/stdio agent endpoint tests, enabling pre-production confidence scoring without cloud dependencies

ContextForge | TypeScript, MCP, FAISS, Python | github.com/Yabuku-xD/contextforge

Apr 2026

- Built a context engine for Claude Code providing repository understanding, graph-aware retrieval, vector-based search, impact analysis, and durable session memory for large codebases
- Integrated MCP (Model Context Protocol) for tool-based retrieval across code, documentation, and dependency graphs, reducing context-window token usage on repos over 10K files

Ghosted | Django, React, PostgreSQL, Redis, Celery | github.com/Yabuku-xD/Ghosted

Mar 2026

- Architected a visa-aware job intelligence platform serving 119K+ H-1B records, 23K+ company profiles, 9K+ salary entries, and 4.4K+ live job listings with structured data aggregation
- Implemented Celery + Redis async job pipeline for ATS ingestion, TF-IDF resume matching, deduplication, cached pagination, and PDF report generation

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Rust, SQL, Bash/Shell, C#

Backend and APIs: FastAPI, Django, DRF, REST APIs, OAuth 2.1, PKCE, WebSockets, Distributed Systems, Microservices

AI and Agent Systems: Agent Evaluation, LLM Guardrails, Adversarial Testing, Trace Replay/Diffing, MCP, RAG, Embeddings, Vector Search, PyTorch, OpenAI SDK, Anthropic SDK

Data and Storage: PostgreSQL, Supabase Auth / RLS, Redis, Celery, SQLite WAL, AWS Glue, Athena, Redshift, S3

Infrastructure: AWS, Docker, CI/CD, Vercel, Observability, Trace Analysis

Frontend and Desktop: React 19, Vite, TypeScript, Tauri