

# Arul Sharma

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## EDUCATION

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### North Carolina State University

*Masters & Bachelors of Science in Computer Science | 4.0/4.0 GPA*

Raleigh, NC

August 2021 – May 2025

## EXPERIENCE

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### Lincoln Financial Group

*Cloud and MLOps Software Engineer*

June 2024 – Present

Philadelphia, PA (Remote)

- Developing and maintaining Lincoln's enterprise **Dataiku DSS** platform — engineering user provisioning, project environment configuration, and governance workflows for our team's data science operations
- Architecting **Amazon Bedrock** integration for my team within Lincoln's AWS environment — designing and configuring IAM roles, VPC endpoints, service quotas, and security guardrails to enable **generative AI capabilities** in production
- Building and maintaining **AWS cloud infrastructure** for my team — implementing landing zone configurations, IAM governance tooling, and automated service health monitoring across enterprise environments
- Developing **CI/CD pipelines** and automation tooling for cloud resource management — scripting AWS provisioning, access reviews, and infrastructure lifecycle workflows

### ADE — Agentic Development Environment

*Creator & Lead Developer*

January 2025 – Present

[ade-app.dev](#) | [github.com/arul28/ADE](#)

- Designed and built a desktop **AI agent orchestration platform** from scratch — managing **multiple autonomous coding agents** in parallel across isolated git branches, accelerating development velocity
- Engineered **multi-agent execution framework** with Lanes (sandboxed **git worktrees**) and Missions (multi-step plans with **planning, execution, and human-in-the-loop approval gates**)
- Built **multi-provider LLM runtime** supporting Claude, Codex, and local models via the **Model Context Protocol (MCP)**, with **semantic search memory** (vector embeddings) and **computer use** capabilities
- Implemented persistent **CTO Agent** with long-term memory and **Linear integration** for autonomous issue triage — demonstrating production-grade **agentic AI architecture**

### Versic

*Founder & Solo Full Stack Developer*

August 2025 – Present

[versic.app](#)

- Architecting a production **cloud-native platform** end-to-end as solo developer — leveraging **AI-assisted development** (Claude Code, Cursor) to ship web, Electron desktop, and native **macOS File Provider** (Swift)
- Designed **single-table DynamoDB** with **8 GSIs**; built **serverless AWS** backend with **HLS audio transcoding** (Lambda + FFmpeg), CloudFront CDN, and **SST Ion** infrastructure-as-code

### Lincoln Financial Group

*Cloud and Software Engineering Intern*

May – August 2022 and 2023

Philadelphia, PA

- Built automated **CI/CD pipelines** using **Python** and **Ansible** to provision and manage **AWS** services, increasing landing zone availability by **4%** through automated service health checks and cleanup
- Optimized **cloud resource management** via **GitLab CI**; implemented monitoring automations for AWS service health, reducing monthly infrastructure costs by **\$3,000+**

## PROJECTS

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### Campus Companion | *Next.js, FastAPI, Python, LlamaIndex, Docker, MongoDB*

January 2024 – Present

- Led development of **RAG-powered AI chatbot** using **LlamaIndex** for semantic retrieval over university knowledge bases; built with Next.js frontend, **FastAPI** backend, and MongoDB for conversation persistence, deployed via Docker

### Flicks! | *Flutter, Firebase, Google Cloud*

June 2023 – Present

- Founder of social media app on the **App Store** with **1,000+ downloads**; full-stack mobile app using Flutter and Firebase with real-time database and GCP cloud storage

## TECHNICAL SKILLS

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**AI/ML & LLM:** Amazon Bedrock, Dataiku DSS, ML Pipelines, RAG, LlamaIndex, Agent Orchestration, MCP Protocol, Prompt Engineering, AI Governance, Model Evaluation

**Cloud & Infrastructure:** AWS (Lambda, S3, DynamoDB, Bedrock, IAM, CloudFormation, CloudFront, Cognito, WAF), SST Ion, Docker, Infrastructure-as-Code

**Languages & Frameworks:** Python, TypeScript, JavaScript, React, Next.js, Node.js, Swift, Electron, FastAPI, Flask

**Tools & Platforms:** Claude Code, Cursor, GitHub Copilot, Git, GitHub Actions, Stripe, Linear, Vitest, Playwright

**Certifications:** AWS Certified Cloud Practitioner, Dataiku MLOps Certification