

Adway Kasture

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📄 github.com/AdwayKasture 🔗 <https://adwaykasture.fly.dev/> 📄 <https://medium.com/@adwaykasture00> 🇺🇸 US Citizen

SKILLS

Backend — Java (Spring Boot, Google Guice, Hibernate), Elixir (Phoenix, OTP, LiveView), Go (Gin), PostgreSQL, Redis

Frontend — Angular, React

System design — Distributed Systems, Concurrency, PubSub, Event-driven Architecture, Microservices, High Availability, Fault Tolerance

Devops and Tooling — AWS, Linux, Docker, Git, Jenkins, Maven, JProfiler, AI-Assisted Development (Claude, OpenCode)

PROFESSIONAL EXPERIENCE

Software developer

2022 – 07/2024

ION Group

- Contributed to Wall Street Suite v8, one of the world's largest treasury and cash management platforms used by major global banks and enterprises
- Owned modules for Settlement Instructions and Cash Management APIs, integrating them with internal and external financial systems
- Ensured **zero-regression deployment** using **TDD** for high-stakes treasury modules through 95%+ test coverage (JUnit/Robot).
- Diagnosed and resolved critical memory leaks causing `OutOfMemoryErrors` under high-load transaction scenarios, improving runtime stability.
- Led technical refactoring efforts around **concurrency** and data consistency, optimizing multi-threaded workflows and **improving throughput by 10%**.

OPEN SOURCE

Creator of Karn

Elixir Library | Hex.pm (170+ downloads) | GitHub (5★)

- <https://hexdocs.pm/karn/overview.html> 🔗
- Designed and developed **Karn**, an advanced Elixir AI assistant for REPL environments, enabling real-time interactive assistance.
- Supports **source code introspection**, empowering the REPL to analyze and respond to user code contextually.
- Supports **documentation introspection** for project dependencies, allowing the assistant to surface relevant docs and examples dynamically.
- Published the package on **Hex.pm** 🔗, achieving 170+ downloads.

Jido

Minor contribution for Elixir AI ecosystem

- Contributed to the **Jido** ecosystem by implementing an **Igniter-based installer**, simplifying project setup and improving developer onboarding.
- Helped standardize installation and configuration workflows in emerging Elixir AI tooling.

INDEPENDENT PROJECTS

Scalable AI Agent Orchestration Platform

09/2025

- Designed and built a distributed AI agent orchestration system combining deterministic workflows with adaptive, agentic behavior
- Architected task dependency graphs with branching, concurrency, and human-in-the-loop checkpoints.
- Implemented n8n style workflow (DAG) integration to trigger and coordinate LLM driven AI tasks from external systems.
- Authored the technical article *Building AI Agents using Oban*, detailing the architecture and scalability considerations.

Catalyst Portfolio Manager

06/2025

- Developed a full-stack portfolio management application to track trades, transactions, and rolling balances optimized using **Memoization**.
- Implemented daily market data ingestion using **background jobs** for **reliable scheduling** and **recovery**.
- Added **authenticated user** sessions, and data visualization dashboards with real-time updates.
- Demonstrated the ability to build production-grade Phoenix LiveView apps with clean architecture and minimal dependencies.

VOLUNTEERING

College Robotics club

Computer Science Division Head

- Led the CS Division for Robocon 2019
- Mentored juniors and programmed embedded systems (Raspberry Pi, STM32, Arduino)

EDUCATION

Bachelor's in Computer Science

Vellore Institute of Technology

CGPA: 8.48/10

2018 – 2022
Chennai, India