

Ryan Smith — AI Architect

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US/Ireland Dual Citizenship • Global Work Authorization

Professional Summary

AI architect specializing in context management, governance, and multi-agent orchestration. 7+ years architecting enterprise ML systems at Charles Schwab serving 30M+ clients. Currently building DarkOps: revolutionary 10-layer context architecture achieving 90%+ token reduction in AI development workflows.

Experience

Independent Research & Development

DarkOps Innovation

2025–Present

- Invented contextual AI architecture solving fundamental development pain points
- Built DIOS2 multi-agent framework capable of autonomous technical project management
- Achieved 90%+ token reduction through session continuity optimization
- Created new category: Contextual AI Research

Independent Product Development

Chedi.io Development

2024–2025

- Built complete NEMT routing platform solving real-world logistics challenges
- Implemented sophisticated Vehicle Routing Problem algorithms using OR-Tools
- Created robust frontend handling complex real-world variables with React
- Integrated Twilio for real-time communication systems

Charles Schwab

Tech Lead Role

Software Engineering Manager

2017–2024

Architected and delivered enterprise-scale ML systems serving 10,000+ financial consultants and 30M+ clients.

- ML Engineering: Productionalized attrition & upselling models in Salesforce
- Cloud Migration: Automated on-premises to GCP migration frameworks
- Data Automation: Built BI frameworks for data warehouse operations
- Team Leadership: Delegated tasks and mentored technical team members

University of Colorado Boulder

Education & Early Career

2012–2017

BS Computer Science, BA Economics. Applied advanced analytics to NBA shot data during research collaboration with Oklahoma City Thunder, developing predictive models for player performance optimization.

Technical Expertise

AI & ML: AI Architecture, Context Management, **System Architecture:** Distributed Systems, Machine Learning Engineering, Multi-Agent Sys- Cloud Architecture (GCP/AWS), Database Design & Optimization

Development: Python/Flask/FastAPI, OR- **Integration:** Twilio, Salesforce, Real-time Systems
Tools, React, PostgreSQL, Redis

Key Projects

AI Context Architecture Platform

In Development

DarkOps

Revolutionary 10-layer context architecture with multi-agent frameworks, domain auto-detection, and session continuity achieving 90%+ token reduction.

NEMT Routing Platform

Private Development

Chedi.io

Complete medical transport platform with sophisticated Vehicle Routing Problem algorithms, optimizing routing efficiency and patient care.

Multi-Agent Organization System

Research Framework

DIOS2 Framework

AI organizational framework with hierarchical agent structure featuring specialized agents for autonomous technical project management.