

# MICHAEL O'NEAL

San Diego, CA • Open to Relocation: SF / Bay Area / Remote  
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Senior / Staff AI Systems Engineer with 25+ years shipping production software at Google (YouTube), Uber, and Intel. Deep expertise in autonomous agent architectures, LLM orchestration, and full-stack ML systems. Builder of helloam.bot — an independent AI agent featuring a novel Kanban-based Cognitive Architecture for persistent reasoning and memory. Passionate about making AI safe, useful, and accessible to everyone.

## CORE COMPETENCIES

**AI / ML Systems:** LLM Orchestration, Autonomous Agent Architecture, RAG Pipelines, Cognitive Architecture Design, Voice Synthesis, Prompt Engineering, AI Safety & Alignment

**Languages:** Python (AI/ML primary), TypeScript (10+ yrs), C# (15+ yrs), JavaScript, Ruby, C

**Frameworks:** React, Next.js, .NET Core, Node.js, LangChain, Deep Learning Libraries

**Infrastructure:** AWS, GCP, Docker, CI/CD, PostgreSQL, Distributed Systems, HIPAA-Compliant Pipelines

**Leadership:** Technical Architecture, Engineering Pod Leadership (3-5 devs), Agile/Scrum, Cross-Functional Collaboration

## PROFESSIONAL EXPERIENCE

### ClaimHawk | Senior AI Systems Engineer

Jan 2024 – Present

- **Architected an autonomous AI agent engine** using Python and TypeScript to integrate LLMs into clinical claim workflows, **reducing operational costs by 90%** and eliminating weeks of manual processing.
- Designed and deployed LLM-driven decision pipelines with structured output parsing, function calling, and real-time agent monitoring — processing dental claim cycles with **99.9% accuracy**.
- Engineered HIPAA-compliant data pipelines using Python-based ETL to bridge clinical practice software with autonomous processing engines, handling sensitive patient data at scale.
- Shipped a real-time React/Next.js dashboard for monitoring autonomous agent task success rates, claim status, and system health.

### helloam.bot — Independent AI Research | Principal AI Engineer

2020 – 2024

- **Designed and built an autonomous coding agent** featuring a novel **Kanban-based Cognitive Architecture** for persistent long-term memory, task decomposition, and multi-step reasoning.
- Engineered the agent's state management system using Python-driven LLM function calling, enabling context-aware planning and execution across complex software engineering tasks.
- Deployed low-latency voice synthesis models and generative audio pipelines using specialized Python deep learning libraries.
- Published portfolio and research artifacts at [augmentedmike.com](https://augmentedmike.com) — demonstrating deep, hands-on expertise in agent design and LLM integration.

### Independent Consultant (Uber, Intel, Enterprise) | Senior Software Engineer

2012 – 2020

- **Uber:** Shipped production-critical Python, C#, and Node.js services for driver-partner and logistics infrastructure during 5x growth, operating at massive scale with strict reliability requirements.
- **Intel (via Robert Half):** Architected hardware-engineering web applications using C#/.NET and React/TypeScript, improving internal workflow efficiency by 15%.
- Delivered full-stack platforms for enterprise clients across e-commerce and logistics, consistently maintaining premium billing rates (\$150/hr) based on measurable ROI.

### Google (YouTube) | Senior Software Engineer

2009 – 2012

- **Scaled YouTube internal systems:** Managed features and stability for high-traffic automation frameworks and developer tooling serving one of the world's largest platforms.
- Led engineering pods (3-5 engineers) to deliver high-velocity features while maintaining Google's elite standards for code quality, testing, and system reliability.

- Full-stack development in C#, ASP.NET, Perl, and LISP — migrating legacy enterprise systems to scalable web architectures across multiple industries.

## NOTABLE PROJECTS

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- **helloam.bot:** Autonomous coding agent with a Kanban-based Cognitive Architecture for LLM reasoning, persistent memory, and task orchestration. Built with Python and TypeScript.
- **Bilingual AI Pipeline:** Python/TypeScript CLI using LLMs to translate and regenerate 25 years of digital archives into a bilingual format — demonstrating practical large-scale LLM application.
- **ClaimHawk Autonomous Engine:** Production AI agent system that replaced manual dental claim workflows, achieving 90% cost reduction with 99.9% accuracy.

## INTERESTS & TARGETS

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**Passionate about:** AI safety & alignment, autonomous agent design, making AI accessible to non-technical users, route optimization, dynamic pricing, real-time data streaming.

**Target:** Staff / Senior Engineer roles at AI-native companies in San Francisco / Bay Area.