

Dechante Chang

dechantechang009@gmail.com · [386-481-3121](tel:386-481-3121) · linkedin.com/in/changweb · github.com/chang-pro · dmchang.xyz

Forward-Deployed AI & Systems Engineer (New Grad)

Summary

Highly-capable Forward-Deployed Software Engineer (Dec 2026 grad) operating at a mid-level capacity. I embed directly with enterprise and defense stakeholders to untangle ambiguous, high-stakes operational problems and ship production-grade AI, real-time voice, and distributed systems. From designing proprietary GPU data pipelines to deploying RAG infrastructures over global SIP networks, I own the entire lifecycle with minimal supervision.

Open Source Contributions & Awards

1st Place Winner — Google Gemini Hackathon (BloomKnights) **Active Contributor** — Core Data & AI Infrastructure

- **Gemini Hackathon:** Architected a real-time prediction market system utilizing edge-device camera feeds (Ray-Ban Meta) to capture live sports streams, extract team stats, and output dynamic win probabilities using Gemini LLM orchestration.
- **Architectural Contributions:** Actively contributing to the world's most foundational data and AI infrastructure repositories, including **pandas**, **scikit-learn**, **dask**, **cypress**, **streamlit**, **Chart.js**, **starship**, and **llama_index**. Collaborating directly with core maintainers to propose critical fixes, optimize data flows, and enhance system architecture across 10+ active pull requests.

Skills

Languages: Python, TypeScript, JavaScript, Java, C, SQL | **Frameworks:** React, Next.js, Node.js, Express, Flask

AI & LLM Orchestration: GPT-4o, Claude 3.5, Gemini 2.5 Flash, Llama 3.3 70B, Whisper, RAG, LangChain

Infra & Cloud: PostgreSQL, MongoDB, AWS, Docker, Vercel, GitHub Actions, CI/CD, Linux, Stripe

Experience

GovSignals

Forward-Deployed Software Engineer Intern

Jul 2026 – Present

Brooklyn, NY / Remote

- **Pipeline Infrastructure:** Embedded as a Forward-Deployed Engineer supporting defense-sector pipeline infrastructure competing for a Department of Defense (DoD) contract.
- **Data Orchestration:** Architected automated data ingestion, transformation, and orchestration pipelines processing high-volume operational data streams under strict security and compliance protocols.
- **Mission Scoping:** Collaborated directly with mission stakeholders to scope ambiguous operational requirements and translate them into production-ready pipeline architecture.

Defense Innovation Unit (DIU) – DoD Sponsored Capstone

May 2026 – Present

Forward-Deployed Technical Consultant

Orlando, FL

- **Technical Consulting:** Selected by UCF and sponsored by the DoD's Defense Innovation Unit to serve as an independent technical consultant for a sensitive defense infrastructure initiative.
- **Architectural Assessment:** Conducted neutral, independent engineering assessments of complex pipeline architectures and system capabilities, validating their viability against strict DoD operational requirements.
- **Stakeholder Bridging:** Acted as the trusted technical bridge between government mission stakeholders and engineering teams, translating ambiguous defense requirements into objective architectural evaluations and reports.

Orleans Quality Cleaning | orleansqualitycleaning.ca

2025 – Present

Full-Stack & AI Engineer (Contract)

Remote (Canada)

- **Zero-to-Production Deployment:** Embedded as sole engineer to architect and deploy Orleans Cleaning's entire production stack from zero in under 30 days—delivering full marketing infrastructure, lead-capture, email/CRM automation, ad-platform integration, online payments, and a proprietary AI phone agent via advanced CI/CD.
- **Enterprise Voice AI:** Built a real-time, 24/7 AI voice agent (Telnyx SIP + Llama 3.3 70B + RAG) and wired it directly into site forms, email, ads, and CRM—orchestrating every lead automatically across multiple integrated third-party services in a single, seamless event-driven pipeline.
- **Tech Stack:** Next.js, Telnyx SIP, Llama 3.3 70B, RAG, Python, Payload CMS, REST APIs

Projects

Ringora | *Enterprise Multi-Tenant SaaS Power Dialer*

ringora.app

Next.js, TypeScript, Twilio, PostgreSQL, WebRTC, Docker

- **Architecture:** Architected a highly scalable, multi-tenant SaaS power dialer from the ground up, implementing strict per-tenant row-level security, advanced RBAC, and isolated dialing sessions—enforcing strict tenant data segregation across shared cloud infrastructure.
- **Real-Time WebRTC:** Engineered ultra-low-latency real-time WebRTC call handling with sub-second connection setup and Twilio PSTN, managing distributed call state and high-concurrency dialing on a live, enterprise-grade operator dashboard.

ClipPro | *GPU-Accelerated AI Data Pipeline*

github.com/chang-pro/clippro

Python, Whisper Turbo (GPU), Gemini 2.5 Flash, FFmpeg, Flask

- **High-Throughput Ingestion:** Built a high-throughput, GPU-accelerated video ingestion pipeline (Whisper Turbo + Gemini 2.5 Flash) for real-time transcript generation, segment scoring, and batch export—engineered a highly resilient asynchronous data flow with automated retries and fully local processing.
- **Proprietary Scoring Engine:** Designed a proprietary 4-dimension AI scoring engine (Hook/Flow/Value/Trend) with web + CLI and batch export, powering recurring content operations for a 50K+ follower media network.

Education

University of Central Florida (UCF)

Bachelor of Science in Computer Science · GPA: 3.73 · Dean's List

Orlando, FL

Graduation: December 2026