

Semaj

ANDREWS

Generative AI application developer · Claude API · agentic systems

CONTACT

(862) 287-3880
semajandrews@gmail.com
Orange, NJ · US Work Auth.
linkedin.com/in/semajandrews

CORE SKILLS

GENERATIVE AI & LLMs

Claude API (Anthropic), OpenAI API, prompt engineering, agentic workflow design, multi-agent orchestration, MCP protocol, tool-use architectures, retrieval-augmented generation, fine-tuning concepts

LANGUAGES

Python, TypeScript, JavaScript, Java, Swift, SQL, C++, HTML5, CSS

BACKEND & APIS

Python, Node.js, REST APIs, GraphQL, tRPC, FastAPI, PostgreSQL, MySQL, Supabase, Firebase

FRONTEND

React, Next.js 15, TypeScript, HTML5, Tailwind CSS, modern animation frameworks

DEVOPS & TOOLS

Git, GitHub, GitHub Copilot, Docker, CI/CD pipelines, JIRA, Vercel, Cloudflare, agile/scrum

MOBILE (BONUS)

Swift, SwiftUI, UIKit, Xcode, React Native, Expo

FAMILIAR / LEARNING

LangChain, LlamaIndex, Hugging Face, PyTorch, TensorFlow, Spring Framework, Kubernetes, Kafka, Gemini, Llama

PROFILE

Hands-on builder of agentic AI systems — already shipping what most of the industry is still planning.

Self-directed Generative AI application developer with hands-on experience designing, building, and deploying agentic workflows in production. Creator of IGRIS, an autonomous build system that orchestrates Claude API agents through the MCP protocol to generate complete web applications from a single brief. Strong full-stack foundation across Python, TypeScript, React/Next.js, SQL, and cloud deployment, with the entrepreneurial drive of having founded a tech company spanning eight countries. B.S. in Information Technology with minors in Computer Science and Web Information Systems from NJIT.

SELECTED PROJECTS

IGRIS — Autonomous AI Build System

Claude API · MCP · Python · TypeScript

Architected and built an AI-powered system that autonomously generates production web applications through a four-phase agentic pipeline (Brief → Design → Atomization → Execution). Implements multi-agent orchestration via the Model Context Protocol (MCP) with Claude as the reasoning engine. Demonstrates end-to-end production agentic-flow design — exactly the kind of system Citi is investing in.

AI Software Factory — Automated Generative Pipeline

Claude API · React · Next.js · Tailwind

Built a four-phase production pipeline (Brain → Design → Atomization → Execution) that transforms client briefs into deployed websites. Integrates LLMs for spec generation, design synthesis, task decomposition, and surgical code execution. Showcases prompt engineering, workflow optimization, and agentic system design in real revenue-generating use.

MacSwift Hub — Multi-Domain API Orchestration Platform

Python · OAuth 2.0 · REST APIs · PostgreSQL

Built a domain-agnostic business automation platform with eBay integration. Implements OAuth 2.0 authentication, real-time inventory orchestration, and a domain-agnostic architecture designed for expansion into financial services APIs and additional marketplace integrations.

BuildWhatYouWant — AI-Powered Conversion Platform

Next.js · Stripe · Supabase · Google APIs

Conversion platform that sources businesses via Google Business API, generates AI-powered landing pages, and delivers previews via QR-code with PIN-based access. Full Stripe checkout with industry-specific add-ons. Real-world AI applied to demonstrable business outcomes.

EXPERIENCE

Founder & CEO · ThinkQueue

March 2021 – Present · Newark, NJ

EDUCATION

New Jersey Institute of Technology

B.S. Information Technology
Minors: Computer Science & Web Information Systems

Newark, NJ · 2013 – 2019

CERTIFICATIONS

Business Technology

Certified 2010

Business Administration

Certified 2010

LANGUAGES

English *Fluent*

Spanish *Intermediate*

Portuguese *Beginner*

- Built and architected the AI Software Factory pipeline — a multi-agent system that converts client briefs into deployed web applications
 - Lead a global engineering team distributed across eight countries (US, UK, India, Nigeria, Costa Rica, Bangladesh, Pakistan, Philippines) in agile cycles
 - Deliver full-stack solutions spanning AI integration, web applications, mobile development, and data infrastructure
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IT Consultant · StationMD

May 2020 – Present · Maplewood, NJ

- Built custom QR code generation system in Python, replacing third-party API dependency with internally maintained service
 - Administered MySQL/PostgreSQL database operations across production healthcare systems
 - Executed WCAG/VPAT accessibility compliance testing to AA standard; shipped a Progressive Web App and native mobile applications
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Junior iOS Developer · Mobile Consulting Solutions

Sep 2019 – Feb 2020 · Atlanta, GA

- Developed mobile applications for Fortune 500 client engagements within agile, scrum-based teams
 - Integrated Firebase, Core Data, and third-party SDKs across production mobile applications
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Earlier Experience

- **iOS Developer — Advanced Intensive**, Apolis — 2022–2023 · *Swift, SwiftUI, MVVM/Clean Architecture*
- **Engineering & Robotics Teaching Assistant**, NJIT — 2014–2018 · *taught Java, C++, and robotics*
- **Junior Accountant Intern**, Bank of America Merrill Lynch — 2011 · *finance industry exposure*