

OMER AKBEN

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PROFESSIONAL SUMMARY

Full-Stack AI Engineer with 6+ years combining React/Next.js (TypeScript) and Python (FastAPI/Django) to deliver LLM-powered features. Integrates OpenAI/Anthropic APIs, LangChain/LangGraph agents, and Retrieval-Augmented Generation (RAG) with vector databases (pgvector/FAISS/Pinecone). Delivers SDET-grade reliability through Playwright/Selenium automation, REST API testing, and CI/CD pipelines (GitHub Actions, Azure DevOps, Docker). Experienced in fintech and healthcare with HIPAA/PHI compliance.

CORE SKILLS

- **AI/LLMs:** OpenAI API, Anthropic Claude API, Vertex AI, Amazon Bedrock, Azure AI services, Elasticsearch, LangChain, LangGraph, RAG, Vector Databases (pgvector, FAISS, Pinecone, Weaviate), Prompt Engineering, Guardrails
- **Frontend:** React, Next.js, TypeScript/JavaScript, Tailwind CSS, Server-Side Rendering (SSR), Incremental Static Regeneration (ISR), Accessibility
- **Backend:** Python (FastAPI, Django), Node.js/Express, RESTful APIs, GraphQL, OAuth2/JWT, Object-Relational Mapping (ORM), SQL Schema Design
- **Cloud/DevOps:** Docker, Git/GitHub, CI/CD (GitHub Actions, Azure DevOps, Jenkins), AWS (Lambda, S3, API Gateway), Azure (Entra ID)
- **Data:** PostgreSQL, SQL Server, MongoDB, Redis, Data Validation, Schema Migrations
- **QA/SDET:** Playwright (E2E/API), Selenium WebDriver, Java, JUnit/TestNG, REST Assured, Postman, Cucumber/BDD, JMeter, Kubernetes, Appium

PROFESSIONAL EXPERIENCE

AI Full-Stack Software Engineer — Freelance | Remote (Raleigh, NC) | January 2024 – Present

- Shipped a multi-tenant AI chat platform for higher education using Next.js/TypeScript and FastAPI with OpenAI/Claude APIs via LangChain/LangGraph and RAG on pgvector, reducing support response time by 60%. Secured RBAC via Entra ID.
- Implemented Playwright E2E and API testing in CI pipelines with visual regression and automatic retries, achieving 95%+ stability on core flows.
- Designed RESTful APIs (FastAPI/Node.js) with Pydantic validation and structured error handling. Reached 90%+ test coverage with comprehensive logging.
- Delivered 15+ workflow automations (Zapier/n8n/Make) and LLM-based data extraction pipelines with audit trails and monitoring.

Test Automation Architect (SDET) — Oteemo | Remote | February 2025 – September 2025

- Built greenfield Playwright framework from an empty Azure DevOps repository with Dockerized runner and multi-environment configuration. Created a reusable starter kit for engineering teams.
- Implemented stability-first waiting strategies and retry patterns, improving suite reliability to 98% pass rate. Authored testing standards and mentored 6+ engineers.
- Integrated Jenkins CI/CD pipelines with parallel execution and flaky test quarantine mechanisms.

QA Engineer — Engineering Consulting Services (ECS) | Raleigh, NC (Hybrid) | April 2023 – January 2024

- Refactored test utilities, increasing team velocity by 20%. Converted manual API tests into automated Postman collections with Newman in CI, decreasing backlog by 10%.
- Modernized Selenium Page Objects to Page Factory pattern with resilient locators, stabilizing flaky flows to 95% pass rate.

Earlier Positions: SDET — Xsolis (October 2022–April 2023) || SDET — Fannie Mae (March 2021 – September 2022)

- Xsolis: Automated HL7/PHI data ETL validation and UI/API testing using SpecFlow and BDD, increasing test coverage from 40% to 85%.
- Fannie Mae: Developed Selenium/TestNG/REST Assured frameworks. Managed Jenkins CI/CD with Selenium Grid (50+ nodes), increasing release velocity by 10%.

PROJECTS

- **AI Chat Platform** (University Client) — Next.js/TS • FastAPI • OpenAI/Claude • LangChain/LangGraph • RAG (pgvector/FAISS) • Entra ID • Playwright — Multi-tenant conversational AI with retrieval evaluation metrics, conversation memory, and content guardrails.
- **Portfolio** (omerakben.com) — Next.js/TS • Vercel • Playwright — Optimized performance (Lighthouse P95 LCP/CLS) with automated smoke and regression testing.
- **tucl** ([npm packages](https://npm.com/packages/tucl)) — React • TypeScript • Storybook — Tree-shakable animation component library with full TypeScript support and CI testing.

EDUCATION

- Nashville Software School — Full-Stack Web Developer Bootcamp | 2024–2025
- TechCenture Academy — Software Development Engineer in Test (SDET) | 2019–2020
- Istanbul Okan University — M.S., Healthcare Management | 2014–2016