SAMUEL R

Full-Stack Developer | Python & React Specialist | AI Integration Expert

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PROFESSIONAL SUMMARY

Full-Stack Developer with **6+ years of experience** building scalable web applications, microservices, and AI-powered platforms. Proven expertise in **end-to-end product development** - from architecture design to cloud deployment. Currently contributing to **SimHealthAI**, a healthcare simulation platform serving medical education institutions.

Available for: Backend | Frontend | Full-Stack | Web Apps | Mobile Apps | AI Integration | API Development

TECHNICAL SKILLS

Category	Technologies
Languages	Python, TypeScript, JavaScript
Backend	FastAPI, Django, Flask, Node.js
Frontend	React 19, Redux Toolkit, React Query, Tailwind CSS, Vite
Databases	PostgreSQL, MySQL, MongoDB, Redis
Cloud & DevOps	Azure (App Services, Functions, Container Apps), AWS (EC2, ECR), Docker, CI/CD
AI/ML	OpenAI GPT, Azure AI, LLM Integration, RAG, Prompt Engineering
Auth & Security	OAuth 2.0, JWT, Azure Entra ID, RBAC
Architecture	Microservices, Domain-Driven Design (DDD), Multi-Tenant Systems, REST APIs

PROFESSIONAL EXPERIENCE

Full-Stack Developer (Contract) - SimHealthAI | Jan 2023 - Present

Healthcare simulation platform with AI-powered tutoring for medical education.

* Developed **microservices architecture** with 6+ backend services (FastAPI, Python 3.11+)
* Built **React 19 frontend** with TypeScript, Redux Toolkit, and React Query
* Implemented **multi-tenant architecture** with PostgreSQL schema-per-tenant isolation
* Integrated **Azure Entra External ID** for enterprise authentication with RBAC
* Developed **Stripe billing** for subscription management and credit-based usage
* Built **AI-powered assessment engine** using Azure AI
* Set up **CI/CD pipelines** with GitHub Actions for Azure deployments

Tech: FastAPI, React 19, TypeScript, PostgreSQL, Redis, Azure, Docker, Stripe

Python Developer - HelixBeat | Jan 2023 - Present

* Developed scalable microservices using Django on Azure App Services

* Built payment dashboard, patient acquisition, and scheduling modules
* Integrated MongoDB for healthcare document workflows

Executive Software Engineer - SoftSuave | Sep 2020 - Dec 2022 (2y 3m)

* **Led team of 3 developers** delivering AI solutions using FastAPI and React
* Optimized microservices, **reducing cloud costs by 20%**
* Promoted to Executive level within first year

KEY PROJECTS

SimHealthAI - Healthcare Simulation Platform

Multi-tenant SaaS for medical universities with AI tutoring | *Tech: FastAPI, React 19, TypeScript, PostgreSQL, Azure, Stripe*

FitAi - Nutritional Assistant

AI meal recommendations using GPT with RAG pipeline | *Tech: Python, FastAPI, RAG, OpenAI GPT*

CAMU - Educational Management

Student platform with bulk CSV handling and reporting | *Tech: Python, React, PostgreSQL*

HelixDoc - Medical Management

Healthcare practice management with payments and scheduling | *Tech: Python, Django, MongoDB*

FREELANCE SERVICES

Service	Description
Backend Development	FastAPI/Django APIs, microservices, database design
Frontend Development	React/TypeScript SPAs, responsive UI, state management
Full-Stack Applications	End-to-end web apps with cloud deployment
AI Integration	OpenAI/Azure AI, chatbots, RAG pipelines, LLM apps
Cloud & DevOps	Azure/AWS setup, Docker, CI/CD, infrastructure

EDUCATION

B.Sc. Computer Science - Bharath University of Arts & Science

ACHIEVEMENTS

* Promoted to Executive Software Engineer at SoftSuave within first year
* Reduced cloud costs by 20% through microservices optimization
* Led development team of 3 engineers on AI/SaaS projects
* Contributing to healthcare education through SimHealthAI platform

LANGUAGES

English (Fluent) | Tamil (Native)