

# Fahad Kiani

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A Full-Stack AI Web Engineer and AWS-certified Solutions Architect Professional and Machine Learning Specialist who combines expertise in cloud architecture, machine learning, and full-stack web development. Unique background in molecular biology and computer science to build scalable end-to-end AI solutions, while mentoring the next generation of developers through technical education and thought leadership in emerging technologies.

## Work Experience

### Machine Learning Engineer

JediLabs.org

08/2023 - Present (Freelance Machine Learning and GenAI Services & Implementation)

- Architected a visual-to-code engine using FastAPI and Next.js, reducing system design time by 80% and full-stack development cycles by 60% through API and LLM scaffolding code synthesis
- Deploy AI agents across containers built for simplified DevOps, cutting infrastructure overhead by 70% vs. AWS ECS and automate load balancing, monitoring, and zero-config CI/CD pipelines
- Engineered a HIPAA compliant AI X-ray analysis pipeline with AWS to reduce pneumonia diagnosis times to under 30 seconds with over 80% accuracy into radiologist clinical workflow
- Build automated data-parsing workflows with vector-based LLM queries that cut manual review time by over 60% while maintaining 90%+ accuracy across insurance and healthcare

### Senior Solutions Engineer

Talend

05/2021 - 8/2023 (Data integration and cloud transformation)

- Architected healthcare data transformation pipeline processing 1TB+ daily, reducing development time 40% through automated ETL workflows and real-time API integrations
- Engineered distributed data processing framework utilizing Apache Spark, Talend and Kafka, scaling AstraZeneca's clinical trials platform across 100+ labs, yielding \$1B operational saving
- Accelerated enterprise pipeline with 3 AEs, executing 1000+ technical discoveries and achieving 85% POC-to-win rate through architectural frameworks and deployment discovery sessions
- Orchestrated automated AWS Kinesis, Firehose and Talend workflows with deploying real-time analytics, increasing forecasting accuracy by 30% and supporting \$1M+ in budget decisions.
- Led technical QBRs for 1000+ Fortune 500 accounts, driving a 40% reduction in churn by delivering strategic KPI planning and conducting proactive architecture reviews across usage
- Collaborated with Product Management to define technical requirements for 100+ major releases, contributing 20+ customer-driven features resulting in 90% renewal and adoption rate
- Spearheaded mission-critical data integration transformation using Talend's ETL conversion accelerators, and successfully migrating 300+ complex ETL jobs to AWS cloud infrastructure

### Lead Web Engineering Instructor

City University of New York (CUNY)

01/2021 - 05/2021 (Full-stack web development coding bootcamp)

- Served as Lead Instructor for a coding bootcamp at City University of New York, teaching six months of Full-Stack Web Development using HTML/CSS, React, Node.js, SQL and NoSQL
- Taught full-stack development using MERN stack (MongoDB, Express, React, Node.js), resulting in 100% of students deploying production-grade applications within 2 weeks
- Mentored 40+ Computer Science students learn web development frameworks, with 90% student completion and 80% of graduates securing engineering roles after graduation

### Founding Solutions Engineer

1stdibs

08/2017 - 05/2019 (Worlds largest luxury eCommerce)

- Architected custom CRM integrations using REST and GraphQL APIs, onboarding 10K+ luxury dealers YoY and boosting partner acquisition efficiency by 200% through 1stdibs Trade Program
- Achieved a 70% rise in customer engagement and contributed to a \$1M+ increase in quarterly sales by leveraging data-driven insights and expanding international partnerships by 80%
- Spearheaded a global eCommerce initiative with multi-currency support, contributing to an 80% increase in global partnerships and 40% growth in international engagement across the web
- Led tailored targeted marketing, lifting new logo rates by 25% through personalized outreach, while evaluating 50+ demo reviews bi-quarterly sprints to improve 40% conversion increase

### Founding Sales Engineer

iMedicare

06/2015 - 07/2017 (SaaS Medicare comparison platform for independent pharmacies)

- Achieved 1000%+ YoY growth by leading demos on API integration in pharmacy EMR systems, resulting in a significant 10x enhancement in data accuracy for manual Medicare data entries.
- Designed and optimized data models for EMR systems, significantly improving reporting efficiency and contributing to a 30% growth in client engagement and patient outcomes
- Streamlined Medicare enrollment for over 80% through API integration of EMRs with pharmacy management software, significantly reducing the time for enrolling patients by 30%.
- Catered API-first solutions within pharmacy networks, enabling real-time data exchange amongst primary care providers (PCPs), leading to a 20 point increase in pharmacy NPS scores

## Technical Skills

### Programming Languages

JavaScript, Python, and React.js

### Web Development

Next, Framer Motion, TypeScript, Django, and Node.js

### Data Engineering

Spark, Talend, Snowflake, Redshift, Redis and Databricks

### Large Language Models (LLMs)

GPT, Gemini, Claude, LLaMA, Stable Diffusion, DeepSeek, Mixtral, Snowflake Artic, Mixtral, and Nemotron (NVIDIA)

### Generative AI Orchestration & Frameworks

LamaIndex, LangChain, LangGraph, Haystack and CopilotKit

### Amazon Web Services (AWS)

EC2, EKS, Lambda, S3, DynamoDB, Bedrock and SageMaker

### Web3 & Blockchain

Solidity, Web3.js, Ethers.js, Alchemy and MetaMask

### Deployment

Vercel, Netlify, AWS, Render and Docker

### AI Agents

CrewAI, LangGraph, Phidata, LangFlow and Pydantic AI

### Data Processing & Extract Transform Load (ETL)

Unstructured, LlamaHub, dbt, Dagster, Talend and AirByte

### Security Frameworks & Compliance

SOC 2 Type II, HIPAA, GDPR, PCI DSS and ISO 27001

## Education

### BS in Computer Science

City University of New York 2019 - 2021

### BS Forensic Biology (Pre-Medicine)

John Jay College 2008 - 2015

### Software Engineering Bootcamp

Per-Scholas 01/2020 - 05/2020

## Certifications

### AWS Machine Learning Specialist

### AWS Professional Solutions Architect

## Technical Work

- Jedi Labs:** You imagine, Jedi Lab's Engineer  
<https://www.JediLabs.org>

AI Services that transforms application development through AI-powered visual architecture design, enabling users to go from concept to implementation

- Edulga:** Adaptive, personalized and impactful learning  
<https://edulga-ai.up.railway.app>

Built a GraphRAG educational platform that transforms traditional course structures into interactive knowledge graphs allowing students to intuitively navigate through interconnected concepts

- AI-Medical:** Instant results for faster pneumonia diagnosis  
<https://aimedical.world>

Fast track the diagnosis of suspected pneumonia patients in just 30 seconds utilizing AI-powered X-ray analysis with over 80% accuracy utilizing a serverless API built with AWS Sagemaker and data labeling pipeline