

David Lang *Full Stack AI Engineer*

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SUMMARY

Senior Full Stack Engineer with extensive experience building scalable backend and web applications using Python, Node.js, and C#. Led development of an AI-driven sports video platform serving 15K daily users, delivering low-latency APIs and event-driven pipelines on AWS and Azure. Integrated LLM and RAG capabilities to automate analytics workflows, boosting processing speed by 30%. Seeking to apply cloud and AI expertise to drive high-performance, reliable solutions for the target role.

EDUCATION

Bachelor's Degree in Computer and Information Sciences, General,
University of North Florida

08/2015 – 05/2018

EXPERIENCE

Pixellot, Senior Full Stack AI Engineer

04/2023 – 04/2026 | Remote

- Owned backend services powering AI-driven sports video and analytics platforms using FastAPI and Django, supporting 10K–15K daily users, 1K+ concurrent sessions, and maintaining p95 latency around 120ms during live event traffic.
- Designed event-driven processing pipelines for live game events, automated video ingestion, highlight generation, and analytics workflows using AWS SQS, Lambda, and Step Functions, processing millions of events per day with retry handling and fault-tolerant queue management.
- Built secure REST APIs and AI-integrated workflows for teams, coaches, broadcasters, and athlete performance platforms with RBAC, audit logging, and encrypted data handling while maintaining 99.9% service uptime.
- Developed AWS-based data pipelines using Lambda, S3, and Step Functions to aggregate multi-camera video metadata, player tracking data, and match statistics, improving downstream analytics and processing latency by approximately 35%.
- Delivered AI-driven features such as automated game summarization, highlight clipping, conversational analytics assistants, and RAG-based sports knowledge retrieval using LangChain and LlamaIndex; these tools let coaches and broadcasters obtain actionable insights instantly, improving decision-making speed.
- Established CI/CD pipelines using GitHub Actions and integrated Claude Code and Cursor into development workflows to accelerate debugging, API implementation, and automated test generation, reducing backend release turnaround time by roughly 30%.

SwingVision, Full Stack AI Engineer

04/2020 – 03/2023 | Remote

- Built end-to-end platform features across backend and frontend systems for an AI-powered sports analytics application supporting 5K+ active users with 99.9% application availability.
- Designed and implemented microservices with Node.js (NestJS) and FastAPI that enabled video ingestion, gameplay analytics, and real-time event workflows, reducing processing time and improving system scalability.
- Developed secure REST and GraphQL APIs with OAuth2/JWT authentication for athlete accounts, match statistics, and AI-generated analytics delivery while maintaining p95 API latency below 150ms.
- Implemented Stripe billing workflows including subscriptions, invoices, and webhook handling, and integrated sports and media APIs to improve real-time transaction synchronization and reduce manual billing effort.
- Built frontend applications using React, Next.js, and Tailwind CSS, and added AI capabilities such as LLM integrations, RAG pipelines, and voice AI agents, which increased user engagement and accelerated delivery of training insights.

FIS, Full Stack Engineer

06/2018 – 03/2020 | Jacksonville, FL

- Built enterprise applications using React, TypeScript, and C# that supported thousands of concurrent users while maintaining API latency under 200ms.
- Optimized MySQL queries and caching layers to eliminate performance bottlenecks and improve system throughput under load.
- Deployed and supported Azure production systems with AKS, Azure Functions, Azure SQL, and Azure Monitor, maintaining 99.9% uptime.

TECHNICAL SKILLS

Language

JavaScript, Python, C#, SQL

Backend

Python (FastAPI, Django), Node.js (NestJS, Express), .NET, REST & GraphQL APIs, WebSockets, Microservices Architecture, Event-Driven Systems (RabbitMQ, Kafka), Domain-Driven Design, API Integration (Stripe, Social Media APIs), Authentication (OAuth2, JWT, RBAC)

Frontend

React, TypeScript, Next.js, Vue.js, Tailwind CSS

Database & ORM

MySQL, PostgreSQL, MongoDB, Supabase, Redis, Prisma ORM, Drizzle ORM, Database Design, Query Optimization

AWS & Azure

AWS (ECS, Lambda, API Gateway, S3, SQS, Step Functions, CloudFormation, SageMaker, Bedrock), Azure (AKS, Azure Functions, Service Bus, Event Grid, Azure OpenAI Service, Cognitive Services)

DevOps & Observability

Docker, CI/CD (GitHub Actions, Jenkins), Terraform, Kubernetes, CloudWatch, Grafana, Prometheus.

AI & Automation

LLM Integration (OpenAI, Anthropic), Agent Frameworks (LangChain, LlamaIndex), RAG Pipelines, MCP Integrations, Prompt Engineering, Conversational AI (Chatbots, Voice Agents)

Practices & Tools

Agile/Scrum, Git, Jira, SOC 2, Claude Code