

Stephen Sanchez

Senior Senior Software Developer

SUMMARY

- Senior Software Developer with 10+ years of experience in full stack development, AI/LLM integration, and cloud native architectures.
- Expertise in React, Next.js, Node.js, Python, TypeScript; architected GPT-4 document intelligence platforms processing 180K+ documents with 32% improved retrieval accuracy.
- Proficient in AI workflow orchestration using LangChain, vector databases, and prompt engineering, optimizing LLM costs by 38% while ensuring 99.8% service availability.
- Strong background in scalable microservices, secure REST APIs, and cloud services (AWS Lambda, ECS, Azure).
- Computer Science degree holder skilled in Agile, SDLC, design patterns, and performance optimization.

TECHNICAL SKILLS

Main Technical Skills	JavaScript (5 yr.), TypeScript (5 yr.), Python (5 yr.), React (5 yr.), Node.js (5 yr.)
Programming Languages	JavaScript (5 yr.), Python (5 yr.), Swift (2 yr.), TypeScript (5 yr.)
C++ Libraries and Tools	C/C++/C# (2 yr.)
Python Frameworks	Django REST framework (1 yr.), FastAPI (2 yr.)
JavaScript Frameworks	Express (3 yr.), Ext JS (2 yr.), Node.js (5 yr.), React (5 yr.)
.NET Platform	Identity Server
AI & Machine Learning	LangChain (2 yr.), OCR (2 yr.), OpenAI (2 yr.), Scikit-learn (1 yr.), Spacy (1 yr.)
JavaScript Libraries and Tools	p5.js, React Native (2 yr.), Redux-Saga (3 yr.)
Python Libraries and Tools	Scikit-learn (1 yr.)
Security	AWS Security Groups, RBAC
Data Analysis and Visualization Technologies	ETL Pipelines (1 yr.)
Databases & Management Systems / ORM	MongoDB (3 yr.), MySQL (3 yr.), PostgreSQL (3 yr.), Redis (3 yr.), relational databases (2 yr.), SQL
	Ant Design, SASS (3 yr.)



UI Frameworks, Libraries, and Browsers	
Cloud Platforms, Services & Computing	Azure (2 yr.)
Amazon Web Services	AWS API Gateway (3 yr.), AWS Fargate (3 yr.), AWS Kinesis (2 yr.), AWS Lambda (3 yr.), AWS S3 (3 yr.), AWS Security Groups
Industry Domain Experience	Banking
UI/UX/Wireframing	3D Modelling (1 yr.)
Methodologies, Paradigms and Patterns	Architecture and Design Patterns, DRY, Kanban (3 yr.), Observer, OOP, Scrum (3 yr.), SDLC
SDK / API and Integrations	AWS API Gateway (3 yr.), Collections API, FastAPI (2 yr.), GraphQL, OAuth, RESTful API (5 yr.)
Version Control	BitBucket, Git (10 yr.), Github Actions (10 yr.)
Deployment, CI/CD & Administration	CD DevOps pipelines, GitLab CI
Platforms	CUDA (2 yr.)
QA, Test Automation, Security	Cypress, Data Validation (2 yr.), Jest, Mocha, Postman (5 yr.), Selenium
Virtualization, Containers and Orchestration	Docker, Kubernetes, Terraform
Collaboration, Task & Issue Tracking	Jira (3 yr.)
Message/Queue/Task Brokers	Kafka (2 yr.)
Blockchain and Decentralized Software	Optimism
iOS Libraries and Tools	SwiftUI (2 yr.)

WORK EXPERIENCE

Senior Software Developer - Reco Universal LLC (LLM-integrated Document Intelligence Platform)

Duration: Jul 2022 - Present

Summary:

- Development of full-stack enterprise applications and an LLM-integrated document intelligence platform to automate document-heavy workflows, improve internal knowledge search, and reduce manual review work
- The platform processes over 180K business documents enabling real-time semantic search, summarization, and Q&A across customer knowledge bases



Responsibilities:

- Led architecture and development of the platform using GPT-4, Azure OpenAI, LangChain, and vector search.
- Designed document chunking, tagging, and metadata extraction pipelines for various document types.
- Developed secure REST APIs and backend services for authentication, data processing, and admin dashboards.
- Built full-stack customer portals and internal admin dashboards using React, Next.js, TypeScript, Node.js, Python, and FastAPI.
- Developed AI-powered data extraction services using OCR, embeddings, prompt engineering, and validation rules.
- Optimized LLM cost and performance with prompt caching, chunk filtering, model routing, retry logic, and response validation.
- Engineered scalable backend services on AWS Lambda, ECS Fargate, API Gateway, S3, SQS, Kafka, DynamoDB, and PostgreSQL.
- Collaborated with cross-functional teams to deliver AI features and maintain high service availability.
- Created AI workflow orchestration using LangChain with routing logic, tool integrations, fallback prompts, and human-review checkpoints.

Technologies: GPT-4, Azure OpenAI, LangChain, vector search, React, Next.js, TypeScript, Node.js, Python, FastAPI, OCR, embeddings, AWS Lambda, ECS Fargate, API Gateway, S3, SQS, Kafka, DynamoDB, PostgreSQL

Software Developer - Contract - Inlera Health (Enterprise Internal Systems for Healthcare)

Duration: Oct 2021 - Apr 2022

Summary: Development of enterprise internal systems supporting IVR management, access control, audit workflows, and backend administration to improve clinical document processing and healthcare operations.

Responsibilities:

- Automated text normalization, entity extraction, document classification, and structured data mapping to reduce manual review time.
- Developed healthcare web applications using Python, Django, Django REST Framework, React, JavaScript, PostgreSQL, and MongoDB.
- Built secure REST APIs for patient data access, document processing, analytics, user management, and reporting.
- Designed data processing pipelines using Python, Pandas, spaCy, and scikit-learn for clinical notes and healthcare records.
- Developed backend services for healthcare analytics platforms enabling search, filter, export, and analysis of clinical documentation.
- Deployed cloud-based backend services on AWS Lambda, ECS Fargate, API Gateway, and S3 supporting batch jobs and real-time data updates.

Technologies: Python, Django, Django REST Framework, React, JavaScript, PostgreSQL, MongoDB, Pandas, spaCy, scikit-learn, AWS Lambda, ECS Fargate, API Gateway, S3

Software Developer - United Software Corporation (Full-Stack Web, Mobile, CMS, and Client-Facing Software Solutions)

Duration: Sep 2018 - Apr 2021

Summary: Built full-stack web, mobile, CMS, and client-facing software solutions across



multiple industries using modern JavaScript, mobile, and backend technologies.

Responsibilities:

- Developed cross-platform applications using Swift, SwiftUI, React Native, React, Node.js, Express.js, MongoDB, MySQL, and Redis.
- Designed and implemented RESTful APIs for authentication, order management, booking workflows, and customer-facing features.
- Improved cloud cost efficiency by optimizing authentication flow, application state, image storage, and backend resource usage.
- Enhanced website loading speed through lazy loading, JavaScript minification, Vite optimization, and frontend performance improvements.
- Built responsive web pages and mobile screens using React, React Native, Redux, SASS, and reusable component patterns.
- Collaborated with designers using Figma to convert designs into functional user interfaces.
- Introduced Jira, Scrum, and Kanban workflows to improve team development efficiency.

Technologies: Swift, SwiftUI, React Native, React, Node.js, Express.js, MongoDB, MySQL, Redis, Redux, SASS, Vite, Figma, Jira, Scrum, Kanban

Software Engineer - L3Harris Technologies (Software Engineering and Real-Time Simulation for Technical Product Environments)

Duration: Oct 2015 - May 2018

Summary: Supported software engineering, build systems, testing, and real-time simulation functionality for technical product environments, focusing on sky and cloud rendering modules and real-time messaging subsystems.

Responsibilities:

- Integrated and delivered third-party software upgrades for sky and cloud rendering modules to improve performance and visual fidelity.
- Developed automated test suites for rendering modules to support debugging and validation.
- Created and maintained integration and production build systems.
- Added asynchronous one-shot and continuous frequency-based data querying to real-time messaging subsystems.
- Supported modernization of build systems, developer environments, and deployment machines using C++17, CUDA 10, and CentOS 7.6.
- Assisted with debugging, testing, release preparation, and production support.
- Collaborated with senior engineers to improve software reliability, maintainability, and deployment consistency.

Technologies: C++17, CUDA 10, CentOS 7.6

EDUCATION

- **Navarro College, Texas**
Bachelor's Degree, Computer Science
Sep 2011 - May 2015

