

FUAT YAZAR

Union City, CA | (707) 812-4163 | fyazar@gmail.com

linkedin.com/in/fuatyazar | fuatyazar.com

SENIOR / STAFF SOFTWARE ENGINEER

Backend | Full Stack | Cloud | AI

Senior/Staff-level software engineer with 15+ years of experience designing, developing, and modernizing distributed enterprise applications across **healthcare diagnostics, financial services, logistics automation, and AI-enabled systems**. Deep experience with **Java, Spring Boot, REST APIs, microservices, event-driven architectures, AWS, SQL/NoSQL databases, and cloud-native systems**, complemented by hands-on **Python, FastAPI, Node.js, React, Angular, and TypeScript** experience. Recent work includes **LLM applications and agentic AI workflows**, including development of AiFlow, a visual environment for designing, executing, and evaluating AI workflows. Experienced across architecture, implementation, integration, testing, deployment, and production support.

TECHNICAL PROFICIENCIES

Backend & Languages: Java, Spring Boot, Python, FastAPI, Node.js, TypeScript, C#/.NET, REST APIs, JPA, Hibernate

Architecture: Microservices, Distributed Systems, Event-Driven Architecture, Cloud-Native Architecture, API Design, Workflow Processing, System Integration, Legacy Modernization

AI / LLM: OpenAI, Gemini, Spring AI, LangChain, Agentic AI, LLM Integration, AI Workflow Orchestration, Prompt Workflows, RAG

Frontend: React, Next.js, Angular, AngularJS, TypeScript, JavaScript, HTML5, CSS3

Cloud & DevOps: AWS Lambda, EC2, S3, SQS, Route 53, IAM, Amplify, CI/CD, Git

Data: PostgreSQL, Supabase, MongoDB, DynamoDB, Oracle, MySQL, Microsoft SQL Server, SQL, NoSQL

Testing & Observability: JUnit, Mockito, Selenium, Postman, Splunk, New Relic, PagerDuty, E2E Testing

AI-Assisted Development: Claude, GitHub Copilot, Windsurf

PROFESSIONAL EXPERIENCE

CEPHEID — Senior Software Engineer

Feb 2025 – Present | Sunnyvale, CA

- Develop full-lifecycle **Java/Spring Boot backend services** for regulated scientific diagnostic platforms.
- Architect scalable REST APIs supporting real-time data visualization and analysis for scientific and research teams.
- Engineer event-driven pipelines for high-throughput assay interpretation and pathogen differentiation.

- Participate in architecture reviews, SDLC planning, and technical design activities supporting enterprise software reliability and quality.
- Collaborate across engineering, verification, and validation teams to deliver production software in a regulated environment.
- Author regulatory documentation and procedural guidelines required for product release and compliance.

TRUSTD.AI — Software Engineer / Architect / Technical Consultant

2020 – 2025 | Remote | Consulting

Worked with a startup across multiple engagements as architect, consultant, and hands-on software engineer, developing backend services, integrations, customer-facing applications, and AI-enabled systems.

- Took ownership of an existing **guest risk-analysis platform**, completing and enhancing its backend services, integrations, and customer-facing capabilities.
- Built asynchronous, event-driven workflows using **AWS SQS** to coordinate guest data collection, third-party verification, web research, risk analysis, and notifications.
- Developed **Python/Selenium** services for automated guest information collection and long-running web research.
- Built B2B integrations and webhook services using **Node.js, TypeScript, and MongoDB**.
- Developed customer-facing portal capabilities using **React, Node.js, TypeScript, and Supabase**.
- Developed Java/Spring Boot applications and REST services supporting email, review management, and platform workflows.
- Integrated AI/LLM capabilities into applications and enhanced existing AI-driven guest workflows.
- Deployed applications across **AWS Lambda and EC2**, using S3, Route 53, IAM, and related AWS infrastructure.

CAPITAL ONE — Full Stack Lead Software Engineer

Nov 2022 – Oct 2024 | Remote, San Francisco, CA

- Built cloud-native microservices supporting **credit-card application and customer onboarding** workflows using Java/Spring Boot, Python, and Node.js.
- Designed and integrated **REST APIs** across distributed enterprise services.
- Built event-driven processing using **AWS SQS**, progressing customer workflows through application, approval, online enrollment, and a 90-day onboarding lifecycle.
- Processed onboarding events including paperless statements, automatic payments, authorized users, and sign-up bonuses, while publishing downstream events consumed by compliance, fraud detection, analytics, and other systems.
- Designed distributed application data using **Amazon DynamoDB** and implemented asynchronous workflow processing.

- Developed real-time streaming integrations to improve operational latency and data flow.
- Improved production observability using **Splunk and New Relic**.
- Contributed to frontend development using **Angular and TypeScript**.

NAVIS LLC — Staff Software Engineer

May 2018 – Oct 2022 | Oakland, CA | Staff Software Engineer

Sep 2007 – Apr 2014 | Oakland, CA | Senior Software Engineer

- Implemented backend architecture and core features for a real-time container terminal automation platform.
- Designed distributed services for crane tracking, logistics monitoring, and asset management across global terminals.
- Developed high-concurrency **Java/Spring** systems supporting real-time industrial automation environments.
- Developed automation and optimization systems for large-scale container terminal operations.
- Implemented business workflows and optimization logic using **Hibernate, JBPM, and ILOG**.
- Supported modernization of an on-premise enterprise platform into distributed services and cloud-oriented architecture.

SIGNATURE CONSULTANTS — Lead Software Engineer

Sep 2017 – May 2018 | Chicago, IL

Client: Bank of America

- Developed **Python-based financial data workflow services** processing contract information received from multiple upstream services.
- Built REST-based backend services consumed by an **AngularJS** application, enabling users to review, verify, and update financial data.
- Implemented financial data processing using Python and **Sandra**, an internal NoSQL database.
- Contributed to modernization of paper-based financial confirmation workflows and digitization of global Forex processing.

OPTIVER US — Senior Software Engineer

Mar 2016 – Aug 2017 | Chicago, IL

- Developed high-frequency rebate calculation systems for derivatives trading platforms.
- Improved trade reconciliation processes handling high-volume Microsoft SQL Server datasets.
- Automated back-office workflows, reporting, and email distribution using **C#/.NET**.

TRUEBLUE — Senior Software Engineer

Apr 2014 – Feb 2016 | Chicago, IL

- Maintained and enhanced the Student-Scout platform supporting large-scale data integrations.

- Developed SOAP and REST integrations for reliable third-party system communication.
- Executed migration of legacy applications to JEE/Tomcat/JBoss environments to improve scalability and performance.
- Automated high-volume batch workflows using Spring Boot, Apache Camel, and Jasper Reports.

SELECTED AI & SOFTWARE PROJECTS

AiFlow — Visual Agentic AI Workflow Development Environment

Python | FastAPI | React | TypeScript | LLMs

- Designed and developed a visual environment for designing, simulating, executing, and evaluating **agentic AI workflows**.
- Built the backend using **Python and FastAPI**, implementing workflow execution, graph traversal, LLM integration, and evaluation services.
- Designed a provider-neutral workflow model separating workflow definitions from the visual representation.
- Implemented execution tracing and workflow simulation supporting mocked responses, real LLM calls, and human-in-the-loop execution.
- Built the interactive workflow canvas using **React and TypeScript**.

AI-Assisted Interview Evaluation Platform

Node.js | React | TypeScript | Gemini

- Designed and implemented a backend scoring engine integrating LLM APIs for automated interview evaluation.
- Developed REST services and stateful prompt workflows supporting the React frontend.
- Implemented role-based authentication and row-level security protecting sensitive data.

Restaurant AI Chatbot

Node.js | React | Gemini

- Designed and implemented an AI-powered restaurant support chatbot using Node.js, React, Gemini APIs, and Gemini File Service.

EDUCATION

Bilkent University

B.S., Computer Science

CERTIFICATIONS & CONTINUING EDUCATION

University of Michigan — Applied Data Science with Python Specialization, Coursera | 2017

Python, NumPy, pandas, data visualization, scikit-learn, machine learning; capstone project

AWS Certified Cloud Practitioner | 2024