Manav Kaushik

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SUMMARY

Software Engineer with 4+ years of experience building cloud-native Java Spring Boot applications on Kubernetes, specializing in financial data processing and securities settlement systems. Strong track record modernizing legacy systems and automating high-volume finance workflows. Building multi AI agent systems in my free time.

EDUCATION

University of Southern California   Los Angeles, CA
Bachelor of Science in Computer Science; GPA: 3.65   *Jan. 2019 – May 2021*

TECHNICAL SKILLS

Languages: Java, Python, C++, Go, SQL, JavaScript, HTML/CSS
Frameworks: Kubernetes, Spring Boot, React, Node.js
Technologies: OracleDB, Apache Kafka, Helm, IBM MessageQueue, Tibco EMS, GraphQL, RESTful API
Cloud: Azure(AKS, Functions, Storage, Monitoring), AWS(AgentCore, Bedrock Lambda, S3, Alexa Skills)
Developer Tools: Claude Code, Copilot, Git, Docker

EXPERIENCE

UBS   Weehawken, NJ
Authorized Officer; Software Engineer II   *Aug. 2021 – Present*

- Built cloud-native Spring Boot matching engine on Kubernetes for pair-off trade reconciliation, reducing manually matched trades by 80%. Developed automated reporting pipeline for match results.
- Migrated core Java securities settlement workflows to CTM M2i for the industry T+1 settlement transition, achieving zero downtime during cutover.
- Transformed legacy on-premises Java applications into modern and scalable versions, deployed to Azure AKS using Helm, building custom orchestration for hybrid on-prem/cloud operation.
- Designed ETF securities message router processing 50K+ messages daily across IBM MQ and Tibco EMS on Kubernetes.
- Automated corporate action processing via Spring Boot microservices on Kubernetes, parsing and persisting financial messages from Apache Kafka to OracleDB.
- Updated various complex system financial message parsers to handle, persist, and send new data values in various data formats (SWIFT, fixml, fixed-width) to match business specifications
- Provisioned and configured newly created Red Hat Linux servers to be used for hosting core business Java backend flows
- Utilized Go to create CLI tools to generate release pages for program deployments

PROJECTS

Stock Sentiment Orchestration Agent
Python, AWS Bedrock, FastAPI, S3   *Jan. 2026 – Present*

- Built a multi-agent orchestration system in Python that coordinates parallel execution of a News Sentiment Agent (NewsAPI) and SEC Filings Agent (EDGAR) to synthesize company intelligence, using Claude as the LLM for query classification, discrepancy detection, and response synthesis
- Designed async execution pipeline with smart query routing, comparing news narratives against SEC disclosures (10-K, 10-Q, 8-K) and surfacing conflicts with severity-scored discrepancy reports and alignment scoring

TV Show Image Filter — Chrome Extension
JavaScript, Chrome Manifest V3, OpenAI Vision API   *Jan. 2026 – Present*

- Developed a Chrome extension that detects and blocks spoiler images for configurable TV shows using a hybrid AI pipeline, local heuristic pre-filtering for fast rejection combined with OpenAI Vision API for accurate classification of uncertain cases
- Implemented a blur-first UX pattern using MutationObserver to intercept images in real-time before they render, with a background service worker coordinating the analysis pipeline across content scripts and API calls