JAGTESHWAR (JAY) SINGH

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Software engineer building cloud-native platforms, data infrastructure, and production AI systems across fintech and large-scale enterprise environments. Ship end to end, from architecture through deployment and operations.

EXPERIENCE

CapTech Consulting: Software Engineer Consultant Chicago, IL | September 2024 - Present

- Engineered cloud-native services on a core banking modernization for a **Top-10 U.S. bank**, migrating legacy systems to scalable AWS infrastructure that impacted **80% of the org** and cut product launch timelines from **9 months to 1 week**.
- Led data standardization across legacy systems using Databricks and Snowflake, projected to generate **$7.8M in annual value** through reduced operational costs and higher account-opening completion rates.
- Engineered REST APIs and Python and Go backed AWS Lambda services in the Product Lifecycle Management domain to support release and management of new financial products.
- Built Databricks validation pipelines in Python and SQL to detect data loss during transformation; optimized ECS configurations and DB throughput via 6 months of New Relic analysis, reducing infrastructure costs by **75%**.

ProCrewz: Salesforce Developer Intern Lombard, IL | May 2024 - August 2024

- Spearheaded migration of the internal issue management system from Salesforce to Jira, improving scalability and cross-platform integration.
- Implemented Apex triggers to enforce accurate client rate card displays, preventing pricing errors and reducing revenue leakage.
- Built Lightning-based job templates that increased production and logging efficiency by **over 40%**.

CapTech Consulting: Software Engineering Intern Columbus, OH | May 2023 - August 2023

- Designed a React customer-facing website with Java Spring Boot RESTful APIs for a major airline client, enabling structured data exchange between frontend and backend systems.
- Deployed and scaled full-stack applications on AWS EC2, achieving a **50% increase in cost efficiency** and high availability.

OSU Wexner Medical Center: Full Stack Student Developer Columbus, OH | January 2023 - May 2023

- Engineered components of a **$2M clinical research platform** enabling healthcare providers to track patients with infectious diseases through a React application.
- Designed GraphQL APIs and data models using Prisma and Apollo to enable efficient querying and patient data management.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Java, Go, HTML/CSS, YAML, C
AI & Data: Claude API (Anthropic SDK), OpenAI API, MCP, RAG, Vector Embeddings, pgvector, LLM Evals, Agentic Workflows, Databricks, Snowflake, PostgreSQL, Pandas, PyTorch
Cloud & Frameworks: AWS (Lambda, Fargate, ECS, SQS, SNS, RDS), Docker, GitHub Actions, Vercel, Supabase, React, Next.js, React Native, Node.js, NestJS, Express, Prisma, Spring Boot, GraphQL

PROJECTS

Cleat | TypeScript Next.js React Native Supabase OpenAI
Built a trainer and client accountability app with confidence-gated AI replies. Shipped a RAG pipeline over each trainer's knowledge base using pgvector with an HNSW cosine index, plus an eval harness over a 105 message labeled set and 148 unit tests.

Mission Control | TypeScript NestJS Prisma PostgreSQL Socket.IO
Built a self-hosted observability and control plane for an OpenClaw AI agent team I run on Oracle Cloud, covering live run tracking, approvals, agent memory, and model usage and spend, with an ingest API that lets agents self-register. 207 test cases across 37 test files.

Ask-My-Resume (AskJay) | React Node.js Express Claude API MCP
Built an agentic tool-use loop where Claude calls a search tool against my resume until it produces a grounded final answer, deployed via GitHub Actions to GitHub Pages and Render.

EDUCATION

B.S., Computer Science and Engineering Graduating Class of 2024
THE Ohio State University - Columbus OH
Secretary, Buckeye Bhangra; Ambassador, Hack OHI/O & SSA