DEVANG BORKAR

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EDUCATION

Master of Science in Computer Science, GPA: 3.92/4.0 — Davis, CA
University of California, Davis — Expected May 2026
Coursework: Distributed Database Systems, AI in Software Engineering, Vision Language Models

Bachelor of Science in Computer Science (Spec. in AI & ML), GPA: 9.13/10.0 — Pune, India
University of Pune — 2019 – 2023

EXPERIENCE

Lead Software Engineering Intern - AI — Davis, CA
Learnhaus AI — June 2025 – Aug 2025
Skills: *Multimodal Data Processing, Prompt Engineering, Pydantic, Python, Affective Computing, REST APIs*

- Engineered a **multimodal AI** coaching platform from design to deployment, creating a **multi-provider AI benchmarking** system achieving **92% feedback accuracy** & reduced processing costs by 30%.
- Engineered a novel evaluation system for agent behavior with **AI-as-a-judge**, improving feedback **actionability** by **25%** by validating one LLM's output against another's, ensuring safe and intelligent AI features.

Software Engineer — Pune, India
Hexaview Technologies — Aug 2022 – Sept 2024
Skills: *C#, SQL, EF Core, Object-Oriented Design, Test-Driven Development, Architectural and Design Patterns*

- Increased **client satisfaction ratings** by **30%** by shipping **20+** features within a C# and **AWS-based microservice** architecture.
- Enhanced backend performance by architecting **50+** APIs and **optimizing SQL** queries achieving a **25% increase** in system efficiency while servicing over **1 million** requests per month.

PROJECTS

HammerTrade – HFT Stock Prediction Platform — Startup Club, UCD
Skills: *PyTorch, Predictive Modeling, Continuous Model Retraining, Python, Kafka, Docker, Real-Time Inference*

- Developed a containerized, **microservices**-based platform using Docker, including **secure** authentication and **parallel processing** service to efficiently manage **model execution** workloads.
- Engineered a **synthetic data engine** allowing users to configure **10+ market parameters**, including the probability and duration of "black swan" events, agent risk profiles, and market recovery speed.
- Deployed the platform using **Kafka** and **Redis**, achieving **real-time** data **visualization** with a dashboard **refresh rate** of **0.35s** for **live market** simulations.

ResChat – Decentralized Platform with AI Assistant — Apache Software Incubation- ResilientDB
Skills: *Distributed Systems, Python, ReactJS, IPFS, C++, Websockets, RAG, Vector Databases, LangChain, Bazel*

- Built a **censorship-resistant**, **decentralized** communication platform using ResilientDB and IPFS, enabling secure, **real-time messaging** and large file transfers (up to 1 GB).
- Implemented a **RAG-based AI** chatbot for **semantic document** search, reducing the average information retrieval time by **over 85%** compared to manual methods.

LLM Chat Auditor – Multi-Agent Conversational Framework
Skills: *Multi-LLM API Integration, WebSockets, Cryptography, MongoDB, JWT, TailwindCSS, React*

- Architected a secure, multi-agent conversational platform enabling real-time, dynamic switching between major LLMs (OpenAI, Claude, Gemini) featuring **AES-encrypted API key** storage and **JWT**-based authentication.

SKILLS

Languages	Python, Java, Go, C++, C#, SQL, JavaScript/TypeScript, Bash
Artificial Intelligence	LLM, RAG, MCP, Multimodal AI, Vector Storage, Finetuning, In-Context Learning
Machine Learning	PyTorch, TensorFlow, Supervised Fine-Tuning, Preprocessing, Reinforcement Learning
Cloud & DevOps	AWS, Google Cloud (GCP), Docker, Kubernetes, Terraform, CI/CD, Git, HuggingFace
Web & APIs	React, Flask, Node.js, REST APIs, GraphQL, WebSockets, NoSQL, FastAPI, Pydantic
Databases & Storage	SQL, MongoDB, Vector Databases (FAISS), Distributed Storage, IPFS, Redis
System Design	Microservices, Distributed Systems, Recommendation Systems, LLM Optimized Inference
Methodologies & Design	0-to-1 Product Development, User-Centric Design, Rapid Prototyping, AI Integration