Bhimesh S. Chauhan

Lead Software Engineer | Senior AI Full-Stack Engineer

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in linkedin | github | website

EDUCATION

Bachelor of Science — Electrical Engineering • Minor: Entrepreneurial Studies   **2014 – 2018**
Iowa State University   Ames, IA

SKILLS

- **AI / ML:** LLMs, RAG, Vector DBs, NLP, Fine-Tuning, Prompt Eng, Embeddings, Semantic Search, Agents, Evaluation, Guardrails
- **Languages:** Python, TypeScript, JavaScript, Java, C#, C++, SQL, HTML/CSS, Bash
- **Backend & Distributed:** Node.js, Flask, Django, FastAPI, GraphQL, REST, WebSockets, Queues, Distributed Systems, Modbus, PCI
- **Data / ML Infra:** TensorFlow, Pandas, NumPy, Pipelines, Feature Eng, Model Eval, Observability, Postgres, Redis
- **Cloud / DevOps:** AWS (Lambda, EC2, S3), Docker, CI/CD (GitHub Actions, Jenkins, CircleCI), Linux, Monitoring (Kibana, Mezmo)
- **Leadership:** Eng Strategy, Architecture, Hiring, Mentorship, Roadmaps, Stakeholder Alignment, Delivery Ownership

PROJECTS

Book-to-Audiobook AI Pipeline
End-to-End NLP & Speech Synthesis System

- Built an end-to-end NLP + TTS pipeline converting long-form books into high-quality audiobooks.
- Applied syntactic parsing, discourse-aware segmentation, & NER/coreference resolution for narrative & character consistency.
- Designed dialogue attribution and integrated TTS with post-processing for natural listening.
- Orchestrated scalable, resumable batch processing in Python.

EXPERIENCE

BenchSci   **Apr 2025 – Aug 2025**
Lead AI / Full-Stack Software Engineer   Toronto, Canada

- Built AI pipelines structuring 100K+ biomedical artifacts into model-ready datasets powering scientific discovery workflows.
- Reduced manual curation by ~60% by standardizing AI-assisted extraction, validation, and review processes.
- Defined cross-team AI standards for reliability, data lineage, and auditability across regulated research systems.
- Partnered with product and science stakeholders to align AI system behavior with real researcher needs.

Scrubs Co-Pilot   **Apr 2024 – Oct 2025**
Senior Founding Lead Engineer   Toronto, Canada

- Built an ambient clinical AI platform from zero to production MVP, working directly with clinicians to validate outcomes.
- Delivered LLM + RAG pipelines cutting documentation time by ~80%, enabling real-time transcription and structured notes.
- Designed system architecture spanning inference, vector search, latency optimization, and safety for healthcare use cases.
- Owned technical roadmap, infrastructure, security posture, and hiring for the engineering function.

MicroMart / KitchenMate Inc.   **Sep 2022 – Apr 2025**
Lead Full-Stack Software Engineer   Toronto, Canada

- Led development of IoT + cloud platform managing hundreds of real-time smart kiosk devices across distributed locations.
- Built Modbus-integrated backend services enabling reliable hardware telemetry, control, and fault handling at scale.
- Owned PCI-compliant payment certification, coordinating vendors and auditors to enable secure production transactions.
- Applied ML forecasting to improve inventory utilization and reduce operational waste across the network.

Preply Inc.   **Oct 2020 – Jun 2023**
Senior Full-Stack Software Engineer   Barcelona, Spain

- Built analytics and personalization systems used by 80K+ active learners across multiple international markets.
- Shipped NLP-based recommendation systems improving learner engagement and tutor matching quality.
- Led experimentation initiatives delivering sustained ~5% conversion lift across core funnels.