

Bhimesh S. CHAUHAN

CTO & Founding Lead Engineer | Lead Full-Stack Engineer

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[linkedin](#) | [github](#) | [website](#)

EDUCATION

Bachelor of Science — Electrical Engineering • Minor: Entrepreneurial Studies Iowa State University

2014 - 2018
Ames, IA

SKILLS

- **AI / ML:** LLMs, Retrieval-Augmented Generation (RAG), Vector Databases, NLP, Fine-Tuning, Prompt Engineering, Embeddings, Semantic Search
- **Languages:** Python, TypeScript, JavaScript, Java, C#, C++, SQL
- **Backend & Distributed Systems:** Node.js, Flask, Django, GraphQL, REST, WebSockets, Distributed Systems, Modbus, PCI-Compliant Systems
- **Data / ML Infrastructure:** TensorFlow, Pandas, NumPy, ML Pipelines, Model Evaluation, Observability
- **Cloud / DevOps:** AWS (Lambda, EC2, S3), CI/CD (Jenkins, CircleCI), Linux, Kibana, Mezmo
- **Leadership:** CTO Responsibilities, Engineering Strategy, Architecture Ownership, Hiring & Mentorship, Roadmapping, Stakeholder Alignment

EXPERIENCE

BenchSci

Lead AI / Full-Stack Software Engineer

Apr 2025 - Aug 2025
Toronto, Canada

- Led AI-driven biomedical data pipelines processing 100K+ unstructured research artifacts into structured, model-ready datasets.
- Reduced manual data curation effort by ~60% by standardizing AI-assisted extraction and validation workflows.
- Owned end-to-end AI workflows across engineering, science, and ML teams supporting downstream discovery and experimentation.
- Established reliability, data lineage, and auditability standards used across regulated research pipelines.

Scrubs Co-Pilot

Chief Technology Officer & Founding Lead Engineer

Apr 2024 - Oct 2025
Toronto, Canada

- Founded and led the technical vision for an ambient clinical AI platform from zero to production-ready MVP.
- Architected LLM + RAG pipelines delivering real-time transcription and structured medical note generation, reducing clinician documentation time by ~80%.
- Designed AI systems spanning fine-tuning, vector search, and low-latency inference, supporting sub-second response times in clinical workflows.
- Defined the end-to-end technical roadmap, balancing speed, accuracy, compliance, and cost from MVP through scale.
- Built and led a small engineering team, hiring and mentoring engineers while owning infrastructure, security, and deployment decisions.
- Worked directly with clinicians to validate outputs, resulting in measurable improvements in note accuracy and workflow adoption.

MicroMart / KitchenMate Inc.

Lead Full-Stack Software Engineer

Sep 2022 - Apr 2025
Toronto, Canada

- Led development of a distributed IoT + cloud platform managing hundreds of real-time smart kiosk devices.
- Built socket-based services integrating Modbus RS485 hardware with scalable backend systems for telemetry and control.
- Owned PCI-compliant Heartland payment certification, coordinating with vendors and auditors to enable production payments.
- Applied ML-based forecasting and optimization techniques to improve inventory utilization and reduce operational waste.

Preply Inc.

Senior Full-Stack Software Engineer

Oct 2020 - Jun 2023
Barcelona, Spain

- Led analytics and personalization features used by 80K+ active learners across the platform.
- Built NLP-based recommendation systems improving lesson matching and learner engagement.
- Drove experimentation and data-driven optimization resulting in a sustained ~5% increase in conversion.