

Bhavain Shah

San Francisco, CA | bhavainshah@gmail.com | [linkedin.com/in/bhavainshah](https://www.linkedin.com/in/bhavainshah) | github.com/bhavain | bhavainshah.com/

Full-stack engineer with 3+ years building scalable systems across mobile, backend, and AI. Published research on LLM-based code translation. 2x Hackathon Winner.

EXPERIENCE

Founding Software Engineer

Jun 2025 – present

Jorts (Seed Stage Startup)

Tech Stack : FastAPI, Neo4j, MongoDB, Docker, GCP (Cloud Run, Monitoring), Terraform, React Native

- Architected and deployed a geospatial social platform on GCP Cloud Run
- Engineered dual-database system (Neo4j for social graphs, MongoDB for events), achieving sub-50ms geospatial queries and sub-200ms API response times
- Implemented CI/CD pipeline with GitHub Actions and Artifact Registry, automating Docker builds and Terraform deployments, reducing release time from 20 to 3 mins

Software Engineer Intern

June 2024 – Oct 2024

Toyota Racing Development (Data Analysis team)

Tech Stack : Python, PostgreSQL, Docker, AWS S3, GitLab CI, Node.js, TypeScript

- Optimized time-series data processing pipeline handling 50GB+ daily telemetry from race simulations, improving memory efficiency by 55% and reducing out-of-memory crashes from 12/week to zero
- Engineered a streaming ingestion pipeline, reducing PostgreSQL insert time by 47% for 10M+ data points

Software Engineer, Product

Nov 2020 – July 2023

Vaave (a SaaS company in alumni networking space, 2M+ users)

Tech Stack : JavaScript, React Native, Redux, AWS SNS, Socket.io, GCP (Analytics, Crashlytics)

- Owned end-to-end development of a social networking app, scaling from 30K to 400K users, with 4.5+ app rating
- Led development of a real-time messaging feature with CometChat, boosting DAUs (daily active users) by 50% and increasing revenue by 30%
- Re-architected Redux state management to support multi-network logins and guest access for 10K+ users
- Built a real-time voice calling feature (WebRTC) with React Native and Agora.io

PROJECTS

Polyglot: An Extensible Framework to Benchmark Code Translation with LLMs • [Research Publication](#)

- Built a framework for LLM-based code translation, translating 250+ C programs → Java/Python/Rust and evaluating with compile checks, runtime reliability, and semantic tests

TestEval • FastAPI, PostgreSQL, Next.js, TypeScript, Celery, Redis, LangChain

- Built a benchmarking framework for evaluating LLM-based unit test generation, analyzing 17K+ JUnit tests
- Designed async pipeline using Celery task queues and Redis to benchmark tests across 10K Java submissions

JobFitAnalyzer • CrewAI, FastAPI, Supabase, Svelte

- Building an AI agent workflow using CrewAI to evaluate candidate-job fit scores

CyberHealth • Node (Express), React, TypeScript, Firebase (OAuth, NoSQL DB), Jenkins, Netlify

- Designed and built a full-stack analytics web app to visualize cyber usage data from 1000+ user sessions

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++, SQL, GraphQL

Frameworks: FastAPI, Node.js (Express), REST APIs, Socket.io, WebRTC, React, React Native, Next.js, Redux

Cloud & DevOps: GCP (Cloud Run), AWS (S3, SNS), Docker, Terraform, GitHub Actions, Jenkins, Prometheus

Databases: PostgreSQL, MongoDB, Neo4j, Redis, Supabase, Vector DBs

AI/ML Tools: LangChain, LangGraph, OpenAI API, Ollama, CrewAI, RAG pipelines

Developer Tools: Git, Postman, Celery, SQLAlchemy

EDUCATION

University of North Carolina at Charlotte

Charlotte, NC

Master of Science in Computer Science, GPA: 3.9

Dec 2024

Research focus: AI in Software Engineering, Human-Computer Interaction