

# Bhavain Shah

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Generalist engineer with 4 years of experience across mobile, backend, and GenAI. Scaled a networking app from 30K to 400K users, optimized data infra at Toyota Racing Dev

## EXPERIENCE

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### Software Engineer Intern

Jun 2025 – present

*Jorts (Seed Stage Startup)*

Tech Stack : FastAPI, Neo4J, MongoDB, GCP

- Building the backend for a geospatial platform to show local realtime events

### Research Assistant

Feb 2025 – May 2025

*UNC Charlotte (AI in software engineering research group)*

Tech Stack : FastAPI, PostgreSQL, Next.js, TypeScript, Celery, Redis, LangChain

- Built an LLM-powered research tool using FastAPI and OpenAI API to evaluate 15K+ JUnit tests
- Designed an async pipeline using Celery task queues and JaCoCo to benchmark tests across 10K Java submissions
- Automated test generation with LangChain and Ollama using zero-shot, few-shot, and CoT prompting strategies

### Software Engineer Intern

June 2024 – Oct 2024

*Toyota Racing Development (Data Analysis team)*

Tech Stack : Python, PostgreSQL, Docker, AWS S3, GitlabCI

- Improved data processing efficiency by 55% by reducing memory usage during time series file handling
- Engineered a custom streaming ingestion pipeline, decreasing PostgreSQL insert time from 3 to 1.6 mins
- Integrated JWT-based Single Sign-On (SSO) with Node.js and TypeScript, improving access control for analysts

### 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 mobile app, scaling from 30K to 400K+ users
- 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
- Managed 50+ app store deployments and release cycles, maintaining a 4.5+ app rating across platforms
- Implemented event tracking with GCP Analytics and Crashlytics to monitor feature performance and user flows

### Software Engineer

Nov 2019 – Oct 2020

*WTA Studios (a startup building web and mobile apps for B2C clients)*

Tech Stack : React Native, Redux, GraphQL

- Developed and deployed 4+ React Native apps for B2C clients, contributing to \$50K+ in client revenue
- Implemented core features such as geolocation tracking, and push notifications, handling end-to-end development

## TECHNICAL SKILLS

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**Languages:** Python, TypeScript, HTML/CSS

**Frameworks:** FastAPI, NextJS, ReactJS, React Native, NodeJS, ExpressJS, LangChain, Tailwind

**Developer Tools:** PostgreSQL, Redis, Docker, AWS, GCP, REST APIs, GraphQL, Socket.io, Celery, SQLAlchemy, Redux, Jenkins, GitLab CI, OpenAI API, Ollama, Git

## EDUCATION

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### 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