

# Jahangir Babar

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github.com/Jahangirbabar2000

## Technical Skills

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**Programming Languages:** JavaScript, TypeScript, Python, Java, SQL, HTML, CSS, C++

**Libraries/Frameworks:** React, Next.js, Node.js, Express, Django, FastAPI, React Native

**Development Tools:** Git, Jenkins, Travis CI, Docker, AWS, PostgreSQL, MySQL, MongoDB

## Experience

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### Software Engineer

Boston, MA

Northeastern University – Center for Transformative Media

Jan 2025 – present

- Engineered a responsive web app in React/Next.js (JavaScript/TypeScript, HTML/CSS) indexing 1,000+ titles with search and filtering backed by DynamoDB.
- Designed RESTful API integrations for semantic search using Gemini function-calling, reducing researcher lookup time ~70% through cross-entity queries.
- Prototyped a voice-driven interface integrated with cloud APIs (Whisper + ElevenLabs), reducing user interaction friction 60% and improving accessibility.

### Enterprise Product Intern

Newton, MA

Bright Horizons

July 2025 – Dec 2025

- Reduced failed authentication attempts ~35% across 5 enterprise services by mapping Okta login flows, defining error-handling requirements, and partnering with engineers on UX updates.
- Increased onboarding completion rate ~20% for 2M+ users by analyzing drop-off in Pendo and FullStory and prioritizing responsive UI changes to registration and authentication screens.

### Software Engineer

San Jose, CA

Devsinc

May 2023 – Aug 2024

- Built and supported scalable cloud microservices and RESTful APIs for analytics workloads, increasing platform throughput 20% through performance tuning and reliability improvements.
- Reduced inference latency from ~500ms to ~50ms by implementing Python (FastAPI/Django) API endpoints and optimizing request/response schemas for batch processing.
- Shipped an LLM-powered content generation feature via API integration, increasing user engagement 40% while collaborating with product and design in Agile/Scrum delivery.

### Software Engineering Intern

Seoul, South Korea

SKAI Worldwide (formerly Bitnine)

Dec 2022 – May 2023

- Developed responsive UI components in React (JavaScript/TypeScript, HTML/CSS) for the AgensSQL/pgAdmin interface, increasing feature adoption 25%.
- Implemented CI automation with GitHub Actions to validate database compatibility, reducing regression testing cycle time ~50% using repeatable workflows.
- Built Python data seeding/validation scripts with psycopg2 and PostgreSQL to achieve 95%+ reliable test environment setup and faster integration testing.

## Projects

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### AquaSafe – Water Quality Monitoring Platform

- Built a full-stack, responsive monitoring platform using React, Node.js/Express, and MySQL, integrating RESTful APIs to visualize telemetry in interactive dashboards.
- Designed a MySQL schema optimized for time-series queries across 50+ sensor streams, enabling sub-second alerting and reliable ingestion for distributed stations.

## Education

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### Northeastern University

Boston, MA

MS in Engineering Management

June 2026

- GPA: 4.0 | Relevant: Generative AI, Digital Product Design, Structured Data Analytics

### National University of Sciences and Technology

Islamabad, Pakistan

BS in Computer Science

June 2023

- 6x Dean's Honor List | Relevant: Data Structures & Algorithms, AI, Deep Learning, NLP, Web Engineering, Database Systems