

RUSHAT GABHANE

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Education

Master of Science in Computer Science

Feb 2025 – Feb 2026 (expected)

University of Twente, Netherlands

Bachelor of Technology in Computer Science

May 2022

NIT Allahabad, India

8/10 GPA

Technical Skills

Backend: Go, C++, Java, Spring boot, PostgreSQL

Frontend: TypeScript, React Native, React

Cloud: AWS, Google Cloud Platform, Terraform, GitHub Actions, Docker

Work Experience

Deutsche Bank

Jun 2022 – May 2024

Software Engineer

Java, Spring Boot, Go, React, PostgreSQL, Terraform, Google Cloud

- **ETL Pipeline:** Designed and implemented ETL pipelines for automating creation of invoices and mandate-based payments. Handled files upto 5GB (10M rows), attracting multiple fortune 500 customers.
- **Component library:** Built a reusable React component library used by 200+ developers across 10 teams, reducing UI development time.
- **SQL code generation:** Used code generation to reduce SQL codebase size by 90%, improving maintainability.
- **Performance optimization:** Improved payment request performance by 55% using concurrency, query optimization, and flame graph-based profiling.
- **RBAC:** Designed and implemented a role-based authorization framework.

Expensify, Inc

Jan 2022 – Dec 2024

Software Engineer - Contract - github.com/Expensify/App

React Native, C++, Typescript

- **Travel product:** Built Expensify Travel with Spotnana, enabling seamless expense tracking and approval workflows
- **Copilot:** Designed, and implemented Expensify's Copilot feature, enabling users to delegate account access to another user during vacations.
- **Help website:** Built the customer help website using Jekyll and implemented a RAG pipeline, leveraging vector search and OpenAI to enable customers to find answers across 10,000+ articles.
- **Keyboard shortcut library:** Built a keyboard shortcut library, enabling subscription-based event handling with dynamic shortcut registration, context-aware execution, and cross-platform support.
- **Offline-first state management:** Designed and optimized Onyx, a persistent, reactive state management library for React Native, enabling efficient cross-platform storage and minimal re-renders.
- **Accounting Data Pipeline:** Developed an automated sync solution for seamless data transfer between Xero, QuickBooks, and Expensify, improving user workflow and reducing manual entry errors.

Internships

Hedge Fund: True Beacon

Aug 2024 – Dec 2024

Software Engineering Intern

C++, Go, AWS

- **Options greeks service:** Architected and built a real-time options Greeks service in C++ with 1 ms latency, used by 10 quant traders for algorithmic strategies. Optimized performance using multi-threading, caching, and vectorized Black-Scholes computations with SIMD (AVX).
- **Monitoring:** Developed real-time monitoring, **preventing** a potential **\$100K loss** by detecting database locks. Contributed fixes to OpenTelemetry.
- **Memory leak:** Diagnosed and resolved a critical memory leak using Go pprof and flame graphs.
- **Task library:** Created a background tasks library to process long running operations. This improved the developer experience for creating new tasks.

Projects

React Native Haptic Feedback | *Java, React Native*

Sep 2022

- Enhanced a widely used open-source React Native library (**550K+ downloads, 800+ stars**), adding new haptic feedback methods and improved modularity.

ElectronVPN | *C++, Javascript*

Aug 2019

- Developed VPN software to improve online gaming on college networks, serving over 500 college students with over **200+ monthly paid users**. Reduced network latency by 80% (500ms to 100ms).