

MD Ashiqur Rahman

Senior Software Engineer @ Mycashbacks GmbH

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Overview

Software Engineer with 7+ years of experience in architecting scalable distributed systems using Typescript, React, Python, GCP. Proven track record in optimizing APIs and AI integrations with OpenAI, Vertex, Gemini and LLaMa.

Skills

Languages	Typescript, Python, Java, SQL
Frameworks	React, React Native, NextJS, NestJS, NodeJS, Spring Boot, FastAPI
Databases	PostgreSQL, DynamoDB, MongoDB , Redis
Cloud	AWS, GCP, Docker , Kubernetes
Practices	Git, Scrum, gRPC, REST, GraphQL, MCP, ORM
AI	OpenAI, Cursor, Claude Code, oLLaMA, LangChain, LangGraph, n8n

Experience

Senior Software Engineer

Mycashbacks GmbH

Berlin, Germany

Nov 2024 – Present

- **Led development** of a cross-browser extension (React, Zustand, GCP) with features like **URL tracking** and automated cashback detection. Improved performance via lazy loading and memoization, increasing user engagement by 25%.
- Built a personalized partner-shop **recommendation system** that clusters partner shops from user browsing and purchase signals; implemented feature pipelines in Python (Pandas) and FastAPI which increased our cashback claims for 18%.
- Implemented a real-time fraud detection system with rule-based kill-switch using NestJs, **Google Cloud App Engine & Cloud Functions**, FastAPI, and PostgreSQL, handling 500,000+ user sessions monthly and reducing fraud incidents by 30%.
- Implemented embeddings + similarity retrieval with a vector store for fast nearest-neighbour lookups, and hybridized with rule-based filters for business constraints.

Software Engineer (Freelance)

Mycashbacks GmbH

Berlin, Germany

Nov 2020 – Nov 2024

- **OpenAI API Integration:** Implemented GPT-powered content generation for product descriptions, multilingual translations (DE/EN/IT/ES), and automated FAQ responses, cutting manual content creation by 70%.
- Built an **analytics dashboard** using FastAPI and Pandas for churn and retention tracking; empower marketing teams to execute targeted A/B tests and automated exports from Mailchimp and CleverPush, reducing manual operations by **80%** and contributing to shared tooling for onboarding flows.
- Designed & scaled cashback platform modules during early growth phase, enabling expansion into Germany, Austria, Italy, Spain, and the USA.
- Integrated **Firebase & Firestore** for real-time cashback tracking, user activity streams, and event-based triggers for personalized push notifications.
- Developed affiliate integration layer with networks like Awin, CJ, Rakuten, using scheduled sync jobs and webhook listeners; reduced shop onboarding from 5 days to 48 hours.

Lecturer, Dept of CSE

United International University

Dhaka, Bangladesh

Oct 2022 – Nov 2024

- Launched a new university course (CSE 4181) on React Native mobile app development, consisting of Core

UI and Interaction, Performance Monitoring and System Architecture Designing by evaluating hands-on labs, real-world app scenarios, and system-design based evaluations.

- Designed and conducted hands-on labs for CSE 3101: System Analysis and Design, introducing students to **Java fundamentals**, **Spring Boot**, and RESTful API design.
- Supervised 5+ thesis groups, leading to 3 published papers on robotics and image processing in **Nature Scientific Data & ICLR**, Austria, by providing weekly mentorship, code reviews, and guidance on software architecture and presentation strategy

Senior Full Stack Developer

Next Ventures

Dhaka, Bangladesh

Jun 2021 – Oct 2022

- **Re-architected** a PHP monolith into **modular Spring Boot microservices** using Spring Data JPA, Hibernate, and REST APIs reducing deployment time by 3x and enabled faster feature rollouts.
- **Led the development** of an ETL pipeline using Django and Pandas, working closely with business analysts to align data models with trading insights and improve stakeholder reporting.
- Integrated OpenAI GPT API for dynamic FAQ generation and multilingual customer support for our european region customers.

Full Stack Developer

Zipteams Inc

Mumbai, India

Nov 2020 – Jun 2021

- Enhanced voice-to-text analysis pipeline, improving recommendation quality and sales team insights, by fine-tuning OpenAI's **Whisper** model and combining it with HuggingFace's BERT-based keyword extraction and **collaborative filtering**.
- Integrated task-based orchestration with background workers for scheduled email triggers using AWS SES and SSR templates; designed the system to be compatible with Bull-like queueing architectures.
- Automated user engagement emails, reducing marketing ops workload by 70%, by integrating AWS SES with dynamic EJS templates across the onboarding and meeting flows.
- Scaled **NestJS** API Gateway to handle 1M+ daily requests, increasing system throughput and reliability, by implementing route-based throttling, auth interceptors, and structured error messaging.
- Built and delivered full-stack features for workspace management, profile settings, and customer recommendations using **React (Next.js, Redux)**, **NestJS** with **PrismaORM**, and **PostgreSQL**, improving user retention by 25% and streamlining onboarding flows, by collaborating across teams to implement scalable, end-to-end solutions across the platform.

Education

Islamic University of Technology

BSc in Software Engineering

Jan 2018 – May 2022

- CGPA: **3.87/4.0** (**4th** out of 85 graduates)

Publications

FracAtlas: A Dataset for Fracture Classification, Localization and Segmentation of Musculoskeletal Radiographs

Aug 2023

Md Ashiqur Rahman, Iftekhrul Abedeen , Fatema Zohra Protttyasha. Tasnim Ahmed
[Nature Scientific Data 10](#)

MosquitoFusion: A Multiclass Dataset for Real-Time Detection of Mosquitoes, Swarms, and Breeding Sites Using Deep Learning

Apr 2024

Md Faiyaz Abdullah Sayeedi, Fahim Hafiz, *Md Ashiqur Rahman*
[ICLR 2024, Vienna, Austria](#)

BanglaDocAtlas: A Multi-Class Annotated Dataset for Complex Bangla Document Layout Analysis

Sept 2025

Md Safayat Hossain, Jannatul Ferdous, *Md Ashiqur Rahman*, Asif Sushmit , Farig Sadeque, Swakkhar Shatabda
[IEEE HPEC 2025, Waltham, MA, USA](#)