

# 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

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

## Experience

**Senior Software Engineer** *Berlin, Germany*  
*Nov 2024 – Present*  
*Mycashbacks GmbH*

- **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 )** *Berlin, Germany*  
*Nov 2020 – Nov 2024*  
*Mycashbacks GmbH*

- **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** *Dhaka, Bangladesh*  
*Oct 2022 – Nov 2024*  
*United International University*

- 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

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### Islamic University of Technology

*BSc in Software Engineering*

*Jan 2018 – May 2022*

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

## Publications

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

*Aug 2023*

*Md Ashiqur Rahman*, Iftekhrail Abedeen, Fatema Zohra Proptyasha, 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*