

ABDULLAH AL NAYEM

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SUMMARY

Backend-focused full stack engineer shipping production Python, Django and AWS systems since 2021. Took a 50K user learning platform's slowest API from 800ms to 280ms at p95. Now building and running an AI voice product from architecture to live users. MSc Software Engineering, Kingston University, London. Open to relocation.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL

Backend: Django, Django REST Framework, FastAPI, Celery, asyncio, WebSockets, REST API design, pytest

Data & Messaging: PostgreSQL (query optimization, indexing), Redis, RabbitMQ, pgvector

Cloud & DevOps: AWS (ECS, Lambda, RDS, S3, SQS), Docker, Terraform, GitHub Actions, Nginx, Sentry

AI Engineering: LLM APIs (Anthropic, OpenAI), structured outputs, Pydantic, evals, voice agents, RAG, prompt caching

Frontend: React, Next.js, Zustand, React Query, Tailwind CSS, Jest

PROFESSIONAL EXPERIENCE

Software Engineer, BlackNerd Studio · London, UK

Nov 2025 – Present

- Built and operate Prepwise AI solo, an IELTS speaking mock test platform on the [App Store](#), [Google Play](#) and [web](#), where AI voice examiners run each structured, timed section with instant scores and feedback.
- Orchestrated multi-stage voice agent workflows on ElevenLabs, with a Django backend driving session state, tool dispatches and guarded transitions so every exam runs identically from first question to final score.
- Designed an eval suite that validates LLM generated scores against official criteria and catches drift across prompt and model changes, matching examiner scored samples within half a band in 84% of cases.

Software Engineer II, Enosis Solutions · Dhaka, Bangladesh

Dec 2022 – Jul 2024

- Optimized the Django backend of a 50K learner LMS with query tuning, Redis caching and Celery async pipelines, taking its slowest dashboard API from **800ms to 280ms** at p95 in production.
- Migrated a Canadian fuel retail chain's store management platform from VB.NET to Django and Next.js, rebuilding the store pricing engine behind its **500K price rows** and gating all **180 store cutovers** on reconciliation checks.
- Built CI/CD for the new Django platform with GitHub Actions and blue green releases, cutting deploys from **2 hours to minutes**, halving release cycle time and gating merges on the pytest suite.
- Mentored three junior engineers through their first production features and presented backend work in weekly client calls, translating requirements into sprint ready tickets.

Junior Software Engineer, LII Lab · Sylhet, Bangladesh

Mar 2021 – Mar 2022

- Built an email marketing system on AWS SES with an automated campaign pipeline, sending **40K+ emails a month** at roughly 30% lower cost than the third party tool it replaced.
- Cut mobile bounce rate from **42% to 28%** by rebuilding the onboarding flow in Next.js and TypeScript, serving 5K+ new users a month.

EDUCATION

MSc Software Engineering (Distinction), Kingston University, London, UK

Sep 2024 – Sep 2025

BSc Computer Science & Engineering, Leading University, Sylhet, Bangladesh

Jan 2018 – Jun 2022

CERTIFICATIONS & ACHIEVEMENTS

[AWS Certified Cloud Practitioner](#) (Aug 2025 – Aug 2028)

IEEEExtreme 14.0 Country Champion, 129th globally of 2,155 teams · [Codeforces Specialist](#), 800+ problems solved