

Md. Abdullah Al Mahmud

Backend-focused Software Engineer with 7+ years of experience in architecting resilient, distributed systems and high-throughput microservices. Proven track record in scaling infrastructure and optimizing data pipelines for real-world production environments.

EXPERIENCE

Independent Software Engineer & Technical Consultant — *Self-Employed*

JANUARY 2023 - PRESENT

- **Systems & Tooling:** Engineered cross-platform CLI developer utilities in Rust and high-throughput backend services in Python and Go, implementing AI-native workflows to accelerate R&D.
- **Architecture & Infrastructure:** Configured containerized microservices and benchmarked database query performance, maintaining local Linux/DevOps testbeds for high-availability database and queue architectures.

Neahtid — *Software Engineer*

OCTOBER 2021 - SEPTEMBER 2022

- Architected high-performance RESTful APIs and relational schemas for multi-tenant applications; mentored junior engineers, enforced code review standards, and set CI/CD practices to elevate team velocity.

VivaSoft Limited — *Software Engineer*

JANUARY 2020 - FEBRUARY 2021

- Engineered microservices for a large-scale educational platform ([Campus.com](https://campus.com)), developing reusable internal libraries and CLI tools that streamlined development workflows.
- Led a cross-functional team in developing an automated IoT-driven vertical gardening system ([Grönska](https://gronska.com)), architecting a custom high-performance REST framework that optimized API response times by ~20% for real-time sensor data telemetry.

Jobike Limited — *Software Engineer*

JUNE 2018 - MARCH 2019

- Architected real-time fleet tracking infrastructure, queue-based SMS authentication pipelines for scale onboarding, and idempotent mobile payment integration microservices (bKash).

GoBD — *Software Engineer*

JULY 2015 - JANUARY 2017

- Engineered real-time transit tracking microservices, custom Raspberry Pi vehicle tracking hardware, and automated systemd server-health monitoring tools.

EDUCATION

American International University-Bangladesh

BSc. in Computer Science and Engineering - (APRIL 2011 - JANUARY 2016)

PROJECTS

- **dev:** Infrastructure-as-code suite to standardize Linux dev environments. Modular design ensures idempotent, reproducible setups and reduced manual config time.
- **gitman:** High-performance CLI engine for syncing 60GB+ of local repos. Implemented recursive traversal and robust error handling for reliable, automated updates.

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SKILLS

Languages: Python (Expert), Rust, Go, JavaScript, TypeScript

Backend & Data: Django (Expert), FastAPI, PostgreSQL, Redis, RESTful API Design, Schema Design, ETL

Infrastructure: AWS (EC2, ECS, Auto-scaling), Docker, Linux, CI/CD, Monitoring & Alerting

Engineering Core: Microservices, System Architecture, Performance Optimization, Distributed Systems

Additional Exposure: Java (Spring), MongoDB, Elasticsearch, GraphQL

ACTIVITIES

Participated in the

ACM ICPC Dhaka Regionals

- In **2013**, with the team *Algorithm_The_Podokkhep*
- and in **2014** with team *MangoBar*.
- Participated in **NCPC 2014** with team *_fatalError*

INTERESTS

- Music / Playing Guitar
- Travelling / Hiking
- Electronics projects
- Painting and Sketching

ONLINE PRESENCE

- [LinkedIn](#)
- [GitHub](#)
- [StackOverflow](#)
- [Personal Blog](#)
- [LeetCode](#)
- [HackerRank](#)