

# Md Almas Forhadi

## Software Engineer — Backend (Django) — DevOps

+880 1852 677251 Dhaka, Bangladesh almasforhadi1999@gmail.com LinkedIn GitHub Portfolio

### Professional Summary

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Software Engineer (Backend-focused) with strong expertise in **Python** and **Django**, specializing in building scalable backend systems and production-ready **RESTful APIs**. Experienced in applying **OOP** principles and the **MVT architecture**, implementing secure **JWT-based authentication**, and enforcing role-based access control. Proven ability to optimize database performance, design API-driven systems, and automate workflows using **Selenium**. Familiar with containerized deployments using **Docker**, CI/CD pipelines, Linux environments, and basic **AWS** cloud deployment.

### Technical Skills

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- **Programming Languages:** Python, JavaScript, C, C++.
- **Web & Backend Technologies:** Django, Django REST Framework (DRF), RESTful APIs, JWT Authentication, React.js, HTML5, CSS3, Tailwind CSS, Bootstrap.
- **Databases:** PostgreSQL, MySQL.
- **DevOps & Cloud:** Docker, Nginx, CI/CD Pipelines, Linux (Ubuntu), AWS.
- **Automation & Web Scraping:** Selenium, WebDriver Manager.
- **Tools Platforms:** Git, GitHub, VS Code, Render, Ngrok.
- **Core Fundamentals:** DSA, Operating Systems, DBMS, Networking, Computer Architecture.

### Projects

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- **CapitalBank – Django Bank Management System** *Live*  
*Python, Django, PostgreSQL, Bootstrap*
  - Engineered a Django-based banking system supporting deposits, withdrawals, and loan processing, ensuring 100% transactional accuracy.
  - Optimized PostgreSQL queries and model signals, reducing average transaction response time by approximately 30%.
  - Enforced role-based access control and integrated SMTP email notifications to improve security and user transaction visibility.
- **Learning Management System (LMS) – Backend** *Link*  
*Python, Django, DRF, JWT, PostgreSQL*
  - Developed and deployed 20+ RESTful API endpoints using Django REST Framework to support course management and enrollment workflows.
  - Integrated JWT-based authentication with 3 distinct user roles (admin, instructor, student), improving access security.
  - Designed scalable backend logic supporting multi-role dashboards and secure password recovery flows.
- **Shwapno AutoScraper – Web Automation** *Link*  
*Python, Selenium, WebDriver Manager*
  - Automated extraction of product data from dynamic pages, processing 200+ records per execution.
  - Implemented data validation rules to eliminate inconsistent entries, improving dataset accuracy by approximately 90%.
  - Improved scraping reliability using headless browser execution and explicit waits for asynchronous content.

### Programming & Problem Solving

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Solved 600+ problems across multiple online judges.

- **Codeforces:** almasforhasi1999 (306+)
- **LeetCode:** Almas\_Forhadi (124+)
- **HackerRank:** almasforhasi1999 (100+)
- **CSES:** 225488 (26)

## Achievements

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- **ICPC Asia Dhaka Regional Contest 2024** — Certificate of Participation

## Certifications & Training

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- Introduction to Generative AI — Google Cloud
- Full-Stack Web Development with Python, Django & React — Ostad
- Mastering DevOps from Fundamentals to Advanced — Ostad
- Python Django 101 — Simplilearn SkillUp
- Agile Project Management — HP LIFE
- Effective Leadership — HP LIFE

## Education

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### B.Sc. in Computer Science and Engineering

2022 – Present

International Standard University, Dhaka

CGPA: 3.85 / 4.00

### HSC (Science)

AKM Rahmatullah College

GPA: 5.00

2020

## Leadership & Activities

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- **Advisor**, Programming Club — International Standard University
- Mentored **25+ students** in programming club and software development, resulting in improved problem-solving skills and contest participation.
- Delivered academic instruction in **Higher Mathematics and ICT** to **30+ local students**, improving exam performance and technical fundamentals.

## References

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### Dr. Md. Hakikur Rahman

Professor & Head, Department of CSE

International Standard University, Dhaka

hakik@isu.ac.bd — +880 1987-417457