

Abdullah Al Norman
Software Engineer | AI & Machine Learning Enthusiast
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PROFILE

Aspiring Software Engineer with a versatile skill set in **Python/Django and Node.js development**. Experienced in building scalable, cloud-native applications with a focus on **AI integration**. Proficient in managing databases using both **SQL and MongoDB**. Committed to writing clean, well-documented code to solve complex real-world problems for international clients..

EDUCATION

B.Sc. in Computer Science and Engineering

University of Asia Pacific | Jan 2021-Dec 2025

SKILLS

- **Programming Languages:** Python, Java, JavaScript, C++, SQL.
- **Backend Frameworks:** Node.js, Django, Django REST Framework (DRF).
- **Cloud & DevOps:** Docker, AWS (EC2), Nginx, CI/CD (GitHub Actions), Linux System Administration.
- **Databases:** MongoDB, PostgreSQL, SQLite, MySQL.
- **Tools & Libraries:** Git, GitHub, Postman, Ollama (Local LLM Integration), VS Code.
- **Frontend Technologies:** HTML5, CSS3, Bootstrap, Tailwind CSS, SASS.

EXPERIENCE

Backend Developer Intern | [Eutropia IT]

Dhaka Uddan Housing, Dhaka | [1Aug 2025] – [30Dec 2025]

- Developed and maintained robust RESTful APIs, ensuring efficient data exchange between the client-side and server-side.
- Collaborated with cross-functional teams to integrate backend services with responsive frontend interfaces using HTML/CSS/JS.
- Managed and optimized database queries (SQL/MongoDB), ensuring data integrity and efficient retrieval for high-traffic modules.

PROJECTS

AI-Powered Upcycling Platform (RemakeX) | [[Github Repository](#)] 2025

- Engineered a full-stack product management platform using Django, featuring a local AI chatbot powered by Ollama for privacy-preserving, offline interactions.
- Designed and implemented a sustainable upcycling module to track product lifecycle extensions, promoting eco-friendly practices.
- Developed a comprehensive system architecture with SQLite for rapid prototyping, demonstrating clear separation of concerns between core logic, UI, and AI services.
- **Deployment:** Successfully deployed the beta version on PythonAnywhere cloud platform to demonstrate public access.
- **Technologies:** Python, Django, Ollama, SQLite, HTML, CSS, JavaScript.

Cloud-Native Inventory Management API | [[GitHub Repository](#)] 2025

- Built and deployed a production-ready 3-tier REST API on AWS EC2 using a fully containerized environment with Docker and Docker Compose.
- Automated the entire development lifecycle by creating a CI/CD pipeline with GitHub Actions for seamless builds and deployments.
- Configured Nginx as a reverse proxy for secure traffic management and optimized a PostgreSQL database for persistent data storage.
- **Deployment:** Previously configured and deployed the system using Docker and DuckDNS for remote accessibility.
- **Technologies:** Python, Django REST Framework, PostgreSQL, Docker, Nginx, AWS EC2, GitHub Actions.

ACHIEVEMENTS

- **Awards & Contests:** Received VC Award for academic excellence; Selected for ICPC 2022 Preliminary and won multiple intra-university programming contests.
- **Leadership & Volunteering:** Served as President of UAP Indoor Games Club and Volunteer at the 45th ICPC World Finals (Nov '22)