

# ASIR ADNAN

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## PROFESSIONAL SUMMARY

Backend-focused **Full-Stack Developer** skilled in designing and deploying **scalable web applications, APIs, and cloud-based systems** using **Python (Django, FastAPI)** and **JavaScript (Node.js, Express.js, React, Next.js)**. Adept at handling **end-to-end application development** - from database design and automation testing to cloud deployment (AWS, DigitalOcean). Proven ability to build high-performance, secure, and production-ready platforms with **CI/CD pipelines** and asynchronous architecture. Passionate about writing clean, efficient code and continuously improving software reliability and scalability.

## CORE TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Kotlin, C++
- **Backend:** Django, Django REST Framework, Express.js
- **Frontend:** React, Next.js, Tailwind CSS, HTML5, CSS3
- **Databases:** PostgreSQL, MySQL, SQLite, MongoDB
- **Cloud & Deployment:** AWS (EC2, S3, SES, RDS, CloudFront), DigitalOcean, Nginx
- **Testing & CI/CD:** PyTest, GitHub Actions, CI/CD, Docker
- **Tools & Version Control:** Git, Linux, Postman
- **Additional:** API Design, Asynchronous Processing (Celery/Redis), Performance Optimization

## COMPETITIVE PROGRAMMING

- Represented BRAC University at the **ACM ICPC Asia Dhaka Regional 2023** (Top 110 finish).
- Represented BRAC University at the **National Collegiate Programming Contest 2023** (Top 100 finish).
- **Codeforces: 1321 Rating** (Pupil) - 1160+ problems solved.
- **CodeChef: 1602 Rating** (3-Star) - 220+ problems solved.
- **LeetCode:** 280+ problems solved.
- **BeeCrowd:** Solved 400+ problems
- **CSES:** Solved 75+ problems

## PROFESSIONAL EXPERIENCE

**Part-time Developer** - BRAC Business School

Nov 2024 - **Present**

- Built, maintained and hosted International Conference websites (e.g., <https://iccbm.bracu.ac.bd/2025>).
- Deployed and managed an internal portal on Hostinger, integrating custom domain configuration to streamline faculty collaboration.

## PROJECTS

### Django & FastAPI Projects

**Pulse Campus** | Project url: <https://pulsecampus.asiradnan.com>

- Built a comprehensive **college management system** using **Django**, hosted via **Nginx** on **Amazon EC2**.
- Designed **RBAC** to manage departments, classes, clubs, noticeboards and forum posts with comments.
- Deployed **PostgreSQL** on **Amazon RDS** for scalable, reliable database management and optimized query performance.
- Images and files for forum posts and notices are stored and served via **Amazon S3**.
- Integrated **Celery with Redis** to handle asynchronous email notifications via **Amazon SES** as background jobs.
- Set up **CI/CD pipelines** using **GitHub Actions** to automate testing and deployments.
- Achieved **98% code coverage** by writing **comprehensive tests** targeting models, views, and asynchronous tasks.

**Cross Platform Todo App (Web and Android)** | Project url: <https://todo.asiradnan.com>

- Designed a cross-platform **task management system** (Android & Web) that managed more than **2,500 tasks**
- Implemented user authentication and task management APIs using **FastAPI** with a lightweight **SQLite** database.
- Created a **NextJS** web frontend to support task management, profile update, and authentication flows.
- Configured notifications, **theme switching** (dark/light), and tabbed views for completed/incomplete tasks.
- Developed **Kotlin-based Android app** with an offline-first architecture; enabled seamless synchronization with the server.
- Hosted backend and frontend on a **DigitalOcean VPS** with **Nginx**.

### Copy Pasta | Project url: <https://coppypasta.asiradnan.com>

- Developed Copy Pasta using **Django** to enable seamless text and file transfer between devices without authentication.
- Implemented a **custom key-based system** to securely upload, retrieve, edit and delete text or files.
- Integrated **Amazon S3** and **CloudFront** for efficient content delivery.
- Achieved **95% code coverage** through **unit testing**.

### Chotto URL | Project url: <https://chottourl.asiradnan.com>

- Developed a full-stack URL shortener using **React** and **Django REST Framework**.
- Deployed the app on a self-hosted VPS with **Nginx**, ensuring responsive design, fast redirects and secure API integration.

## NodeJS & JavaScript Projects

### SoulSpeak | Project url: <https://soulspeak.asiradnan.com>

- Developed a full-stack mental well-being platform enabling users to share experiences, connect with companions, and promote emotional wellness.
- Built a **real-time chat system** using Socket.IO for one-on-one conversations with typing indicators, chat history, and online presence tracking.
- Designed a companion certification program with assessments, score tracking, and curated mental health training resources.
- Implemented community forums with category-based posts, image sharing, upvotes, comments, and full CRUD functionality.
- Integrated **JWT authentication**, email verification, password recovery, and secure file uploads with Multer for profile and forum media.
- Created an **admin dashboard** for managing users, reports, training questions, and account suspensions with PDF export capabilities.
- Developed using **React.js**, **Node.js**, **Express.js**, and **MongoDB**, with modular architecture and responsive UI built with Tailwind CSS.
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### Personal Portfolio | Project url: <https://asiradnan.com>

- My personal portfolio website built with **NextJS** showcasing projects, skills and achievements
- Features include in app message form, SEO optimization, mobile responsive and multiple themes.
- Implemented **click analytics** and **usage tracking**, providing insights on user engagement through statistics.

### Apartment Management System | Project url: <https://ams.asiradnan.com>

- Built and deployed a scalable apartment management platform using **NextJS** on a **DigitalOcean VPS**
- Implemented **Role-Based Access Control (RBAC)** for secure complaint handling, billing, and resident onboarding
- Developed a community forum with support for posts, comments, and media sharing for events
- Integrated **automated email notifications** for complaint status, billing updates, and resident approvals

## Android Project

### Periodic Table | Project url: <https://play.google.com/store/apps/details?id=com.asiradnan...>

- Published Android app on Google Play featuring a **searchable list of 118 chemical elements** with detailed views
- Implemented **Bangla** and **English language support** to increase accessibility for regional users
- Built using **MVVM architecture** and **Jetpack Compose** with **Material Design** components

## CERTIFICATIONS

- 2023 ICPC Asia Dhaka Regional - ICPC 2023
- National Collegiate Programming Contest 2023 - NCPC 2023 Contestant
- Web Development Fundamentals - **IBM**, Python Essentials 1 - **Cisco**
- SQL (Basic + Intermediate), Problem Solving (Basic + Intermediate), Rest API (Intermediate), Python (Basic) - Hackerrank
- C++, Introduction to Java, Introduction to JavaScript, Python for Beginners, Python (Intermediate), Python (Data Structures), Introduction to SQL, SQL (Intermediate), SEO with AI - Sololearn

## EDUCATION

**Bachelor of Science in Computer Science**, BRAC University, Bangladesh, 2022 - 2025