Asir Adnan

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Summary — I actively build and host cross-platform softwares for over two years using modern Python and Javascript frameworks. My Competitive Programming journey made my DSA foundations solid and earned me national achievements.

Skills

Python	Django, DRF, FastAPI	**Javascript**	NodeJS, ExpressJS, NextJS, ReactJS
Cloud	AWS (EC2, S3, SES, RDS, CloudFront)	**Kotlin**	Android
System	Nginx, Linux, Git, Github, CI/CD	**Database**	PostgreSQL, MySQL, SQLite, MongoDB

Competitive Programming

– Solved more than 2000 problems on online judges including Codeforces, Leetcode, Hackerrank.
– Got the honour to represent my university in ACM International Collegiate Programming Contest 2023.
– Represented my University in National Collegiate Programming Contest 2023.

Experience

BRAC Business School   **Nov 2024 – Present**
Full-Stack Web Developer

– Playing different roles of development lifecycle - communicating with the authorities to make functional requirements clear, designing apps, coding, testing and finally deploying on server.
– Built a research paper submission portal for international conference with Django that provided better user experience and instant email feedback for more than 150 submissions.
– Redesigned the frontend for upcoming conference with modern look keeping up with today's practices.

Projects

Pulse Campus   **https://pulsecampus.asiradnan.com**

– Developed a full-featured college management portal with Django, deployed on Amazon EC2 with Nginx.
– Role based access control 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 attached with Forum Posts and Notices are stored and served with 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   **https://todo.asiradnan.com**

– Designed and developed a cross-platform task management system (Android and Web) handling over 2,500 tasks.
– Implemented a FastAPI backend for managing authentications and user specific tasks with SQLite Database.
– Developed Kotlin-based Android app with an offline-first architecture; enabled seamless synchronization with the server.
– Built a Next.js web frontend to support task management, profile update, and authentication flows.
– Integrated push notifications, dark/light themes, separate tabs for complete/incomplete tasks across both versions.
– Deployed both backend and frontend on a Virtual Private Server, using Nginx as the reverse proxy and web server.

Apartment Management System   **https://ams.asiradnan.com**

– Designed and deployed a full-featured Apartment Management System using Next.js on a private VPS.
– Implemented Role-Based Access Control for complaint and billing management and resident approval.
– Developed a community forum enabling residents to post, comment, and share event media.
– Integrated email notifications for complaint, billing, and verification status updates.

Copypasta   **https://copypasta.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 and retrieve text or files.
– Integrated Amazon S3 and CloudFront for efficient content delivery; achieved 95% code coverage through unit testing.

My other projects are listed in https://asiradnan.com/projects

Education

BRAC University   **2022-2025**
Bachelor of Science in Computer Science (CGPA: 3.29)