

ANAND S BOSCO

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PROFESSIONAL SUMMARY

Software Developer pursuing a Master of Computer Applications with hands-on experience in designing and developing scalable backend applications using Python, Java, FastAPI, Django, Node.js, SQL, and JavaScript. Experienced in REST API development, authentication systems, database design, OCR integration, and full-stack web development. Passionate about clean code, software engineering best practices, Agile development, and building reliable, high-quality software. Seeking an Associate Software Developer role to build scalable software solutions while contributing to collaborative engineering teams and continuously expanding my technical expertise.

EDUCATION

Amal Jyothi College of Engineering

2025 – 2027 (Pursuing)

Master of Computer Applications (MCA)

CGPA: 8.6

St. Antony's College, Peruvanthanam

Bachelor of Computer Applications (BCA)

2022 – 2025

CGPA: 7.0

PROJECTS

Needle Stick Injury Management System (NSIMS)

Client: Sheikh Khalifa General Hospital, Umm Al Quwain, UAE

Python • Django • SQLite • HTML • CSS • Bootstrap • JavaScript

- Developed a secure web-based occupational exposure management system to digitize needle-stick injury reporting and workflow tracking for a government hospital.
- Designed role-based access control (RBAC) with department-level data isolation, ensuring secure access for administrators, CMOs, doctors, and nurses.
- Implemented incident lifecycle management with workflow tracking, audit logging, secure file attachments, and standardized clinical reporting.
- Built interactive dashboards, analytics, and PDF/Excel reporting to support hospital administration and regulatory compliance.
- Designed relational database models, secure authentication modules, and role-based access control following Django MVT architecture and software engineering best practices.

TaxPilot AI – Enterprise Accounting Tax Compliance Platform

FastAPI • Python • PostgreSQL • SQLAlchemy • Redis • Docker • JWT • REST APIs

- Developing an enterprise-grade cloud platform to automate accounting, tax compliance, invoice management, and business operations for MSMEs.
- Designed a scalable backend using FastAPI, SQLAlchemy, PostgreSQL, and Redis, following Clean Architecture, the Repository Pattern, and the Unit of Work pattern.
- Implemented secure authentication and authorization with JWT access/refresh tokens, role-based access control, and session management.
- Built modular REST APIs, business domain services, and event-driven workflows to improve maintainability and scalability.
- Containerized the application using Docker and integrated database migrations with Alembic to support reliable deployment.
- Following enterprise software engineering practices including layered architecture, automated testing, API documentation, and domain-driven design.

Blind Email – Voice-Enabled Email System

Python • Django • SQLite • HTML • CSS • Bootstrap • JavaScript

- Developed an accessible web-based email application that enables visually impaired users to send and receive emails using voice commands.
- Integrated Speech-to-Text (STT) and Text-to-Speech (TTS) technologies for hands-free email composition, navigation, and reading.

- Designed secure user authentication, email management workflows, and database models using the Django framework.
 - Implemented responsive user interfaces and backend modules for inbox management, message composition, and contact handling.
 - Applied MVC/MVT architecture, input validation, and modular development practices to build a reliable and maintainable application.
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EXPERIENCE

Python Developer Intern – Soft Solutions

2 Months

- Developed backend modules using Python.
- Built REST APIs and integrated SQL databases.
- Debugged and optimized application features.
- Worked in an Agile development environment.

Software Developer, Trinity Solutions

8 Months

- Developed enterprise web applications using Django and JavaScript.
- Designed relational databases and authentication systems.
- Implemented role-based access control and reporting modules.
- Collaborated with stakeholders to deliver client requirements.

SKILLS

• LANGUAGE

PYTHON • JAVA • JAVASCRIPT • SQL • C++

• FRAMEWORKS

FASTAPI • DJANGO • NODE.JS • EXPRESS.JS

• FRONTEND

HTML5 • CSS3 • BOOTSTRAP • REST APIS

• DATABASES

POSTGRESQL • MYSQL • SQLITE • MONGODB

• TOOLS

GIT • GITHUB • DOCKER • POSTMAN

• CONCEPTS

OOP • DBMS • DATA STRUCTURES • JSON • RBAC • MVC/MVT • AGILE • UNIT TESTING

CERTIFICATIONS

- NPTEL (SWAYAM) – Cryptography (Certified)
- Infosys Springboard – Data Structures & Algorithms
- Infosys Springboard – Database and SQL
- Infosys Springboard – Android Application Development
- Udemy – Database Management System (DBMS)

LEADERSHIP & ACHIEVEMENTS

Secretary – Entrepreneurship Cell – St. Antony's College

1st Runner-Up – National Entrepreneurship Challenge (IIT Bombay)

Semi-Finalist – Eureka Business Model Competition