

# ABU BAKAR

## SOFTWARE ENGINEER

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### SUMMARY

Full-stack Software Engineer specializing in AI/ML integration and high-performance web applications. Delivered measurable results including **40%** reduction in data errors and **35%** improvement in database performance through FastAPI and PostgreSQL optimization.

### PROFESSIONAL EXPERIENCE

#### Codeaza Technologies

Feb 2025 – June 2025

Associate Software Engineer Intern

Rawalpindi, Punjab

- Architected multi-tenant restaurant feedback platform serving **12+** restaurant chains with **800+** monthly active users, achieving **98%** uptime
- Engineered ML-powered voice analytics system processing **50+** daily recordings with **85%** accuracy, reducing manual review time by **60%**
- Optimized PostgreSQL queries and implemented testing framework with **90%+** coverage, improving dashboard performance by **35%**
- Deployed real-time analytics dashboard with automated validation, increasing customer satisfaction by **25%**
- Developed comprehensive admin panel using SQLAdmin managing **25+** restaurant owner accounts and **40+** business profiles, reducing manual data entry time by **45%**

### KEY PROJECTS

#### NeuroSentinel — AI-Driven Brain Disease Detection Platform

Feb 2024 – Jan 2025

- Tech Stack:** React.js, Python, FastAPI, TensorFlow, Scikit-learn, TailwindCSS, Node.js, MongoDB, Express.js
- Architected healthcare management system with AI-powered detection for **5+** neurological conditions including Alzheimer's, Parkinson's, and brain tumors using MRI/CT analysis
- Implemented ML models achieving **92%** accuracy in disease classification, integrated with patient management, scheduling, and telehealth consultations
- Designed authentication system with RBAC, AES-256 encryption, Stripe payment integration, and real-time analytics dashboard

#### BlogApp — Full-Stack Content Management Platform

Feb 2025 – Mar 2025

- Tech Stack:** React.js, FastAPI, PostgreSQL, TailwindCSS, Redux, JWT, Google OAuth2, CKEditor, Cloudinary
- Launched blogging platform with JWT/OAuth2 authentication supporting **100+** concurrent users and maintaining **95%** uptime
- Created rich-text editor with cloud media integration, reducing content creation time by **50%**
- Implemented admin dashboard with user management, content moderation, and performance analytics

### TECHNICAL SKILLS

- Frontend:** React.js, Redux Toolkit, TailwindCSS, JavaScript (ES6+), HTML5, CSS3
- Backend:** Python, FastAPI, Node.js, Express.js, RESTful APIs, Event-driven Architecture
- Database:** PostgreSQL, MongoDB, Query Optimization, Schema Design, Alembic, SQLAdmin
- Tools & DevOps:** Docker, Git, JWT, OAuth2, Pytest, Sentry, Web Scraping, CI/CD

### EDUCATION

#### COMSATS University Islamabad

Feb 2021 – Jan 2025

Bachelor of Software Engineering | Major in Computer Science

Islamabad, Pakistan

- Relevant Coursework: Data Science, Software Engineering, Operating Systems, Web Technologies, AI
- Final Year Project: AI-driven healthcare platform for brain disease detection using deep learning
- Achievement: FYP shortlisted in **top 10** out of **40** submissions for Project Expo 2024