

# ABU BAKAR

Software Engineer

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## SUMMARY

Software Engineer with expertise in Python, FastAPI, and TensorFlow. Experienced in full-stack development, ML models, and AI-driven applications. Proven track record in web development and computer vision solutions with hands-on project experience achieving **92%+** accuracy in disease detection.

## PROFESSIONAL EXPERIENCE

### PulseMatrix LLC

Sep 2025 – Present

Web Developer Intern (Remote)

Flathead County, Montana, USA

- Developed and deployed **10+** responsive business websites using GoDaddy platform (Website Builder, Web Hosting, SSL Security), serving clients across diverse industries with **100%** on-time delivery
- Engineered custom web solutions integrating contact forms, media galleries, and document management systems with mobile-first design approach, improving user engagement by **40%**
- Implemented SSL security protocols and optimized site performance, reducing page load times by **30%** while ensuring cross-browser compatibility and SEO best practices

### Codeaza Technologies

Feb 2025 – June 2025

Software Engineer Intern

Rawalpindi, Punjab, PK

- Architected scalable multi-tenant restaurant feedback platform serving **12+** chains with **800+** MAU, achieving **98%** uptime through optimized FastAPI backend and PostgreSQL database design with efficient schema migrations
- Developed **20+** RESTful API endpoints with RBAC and JWT/OAuth2 authentication, integrated ML-powered voice analytics processing **50+** daily recordings with **85%** accuracy, reducing manual review time by **60%**
- Built real-time analytics dashboards and admin panels using React.js and SQLAdmin managing **25+** restaurant accounts, optimized PostgreSQL queries improving performance by **35%**, and implemented comprehensive testing with Pytest achieving **90%+** code coverage

## KEY PROJECTS

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

Feb 2024 – Jan 2025

- Tech Stack:** React.js, Python, FastAPI, TensorFlow, Scikit-learn, TailwindCSS, MongoDB, Express.js
- Architected healthcare system with AI detection for **5+** neurological conditions achieving **92%** accuracy using MRI/CT analysis
- Integrated patient management, scheduling, telehealth consultations, RBAC authentication, AES-256 encryption, and Stripe payments

### BlogApp – Full-Stack Content Management Platform

Feb 2025 – Mar 2025

- Tech Stack:** React.js, FastAPI, PostgreSQL, TailwindCSS, Redux, JWT, Google OAuth2, CKEditor, Cloudinary
- Launched platform with JWT/OAuth2 authentication supporting **100+** concurrent users and maintaining **95%** uptime
- Created rich-text editor with cloud media integration and admin dashboard with content moderation capabilities

## TECHNICAL SKILLS

- Frontend:** React.js, Redux Toolkit, TailwindCSS, JavaScript (ES6+), HTML5, CSS3, Responsive Design
- Backend:** Python, FastAPI, Node.js, Express.js, RESTful APIs, Event-driven Architecture
- Database & AI/ML:** PostgreSQL, MongoDB, TensorFlow, Scikit-learn, Keras, Query Optimization
- DevOps & Tools:** Docker, Git, CI/CD, SQLAdmin, Alembic, GoDaddy Website Builder

## EDUCATION

### COMSATS University Islamabad

Feb 2021 – Jan 2025

Bachelor of Software Engineering / Major in Computer Science

Islamabad, Pakistan

- Final Year Project: AI-driven healthcare platform for brain disease detection (shortlisted in **top 10 of 40** submissions)
- Relevant Coursework: Data Science, Software Engineering, Operating Systems, Web Technologies, AI