

Abdullah Saeed

abdullah.saeed1724@gmail.com | abdullahsaeed.me | [LinkedIn](#) | [GitHub](#)

EDUCATION

Amity University, B.Tech in Computer Science & Engineering, Uttar Pradesh, India June 2025

- **CGPA:** 8.48/10.00

Relevant Coursework: Data Structures Using C, Analysis & Design of Algorithms, Database Management Systems, Operating Systems, Theory of Computation, Compiler Construction, Distributed Systems, Artificial Intelligence, Generative AI, Software Engineering, Object Oriented System Design, Cyber Security, Discrete Mathematical Structures, Digital Electronics & Computer Organization

RESEARCH PUBLICATIONS

- **Enhanced Brain Tumor Detection via ResNet50 Classification and Residual U-Net Segmentation** *IEEE CICTN 2025*
 - Achieved 94.2% accuracy improvement over baseline models using ensemble deep learning approach
 - Developed novel ResNet50-based classification system with Residual U-Net for precise tumor segmentation
- **AI-Enabled Semantic Web** *IEEE ICDT 2024*
 - Proposed novel semantic indexing algorithm improving query response time by 40%
 - Proposed intelligent knowledge graph architecture for enhanced information retrieval systems

EXPERIENCE

Freelance Fullstack Developer, [Kiirco.cx](#) – Remote Apr 2025 – Present

- Solely led the end-to-end development of **8+ production-grade websites** for UAE-based SMBs and international clients
- Managed all aspects of client engagement, requirements gathering, and delivery for dubbby.com, brainwise.pro, simplymortgage, lotusproservices, achieving **150% lead generation improvement**
- Built a reusable component library, reducing development time by **60%** using Next.js and TypeScript
- Delivered tailored solutions independently, ensuring high quality and timely delivery

Software Development Intern, [Blue Rocket LLC](#) – Delhi, India Mar 2025 – May 2025

- Contributed to Galaxy.ai webapp by integrating **27 AI-powered document processing tools**
- Implemented Mistral OCR pipeline with microservices architecture for scalable document processing
- Built microservices supporting **18 PDF manipulation** and **9 NLP tools** with scalable infrastructure

Software Engineering Fellow, [Headstarter AI & HIT AI](#) – Remote Jul 2024 – Sep 2024

- Led development of a **Top-10 ranked AI web application** selected from **500+ project submissions** in partnership with HIT AI (London, UK)
- Built and deployed a SaaS product integrating Gemini 1.5 Flash API, Stripe, and LangChain-powered web scraping
- Scaled full-stack applications to support **100+ users**, iterating projects quickly based on user feedback
- Designed and trained **5+ AI/ML models**, including neural networks, RAG pipelines, and recommendation systems
- Optimized classification model's backend algorithms using Flask and Python, improving real-time AI performance by **50%**
- Developed video upload UI using Next.js, Tailwind CSS, and AWS S3, enhancing file processing speed by **40%**
- Automated data summarization with MongoDB, Clerk, and LangChain, reducing manual review time by **30%**

Web Developer Intern, [Mirch Media](#) – New York (Remote) Mar 2024 – Aug 2024

- Converted **6+ Figma designs** to responsive React components with **98% design accuracy**
- Optimized application performance achieving **15% faster load times** through code optimization
- Collaborated in agile environment contributing to major product releases

PROJECTS

Guidance Welfare Foundation - Islamic Educational Platform (PWA) [Live Platform](#)

- Full-Stack Learning Management System serving **500-1000 active learners** with enterprise-grade architecture
- Architected production-ready educational platform with comprehensive role-based access control and admin/student permissions
- Implemented advanced test management system with multiple question types, auto-grading, and real-time analytics

- Built payment processing workflow with multi-method support and **PWA Capabilities** with offline functionality
- Achieved **60-80% reduction in API calls** through React Query optimization and advanced caching strategies
- Designed **15+ interconnected database tables** with optimized queries, indexing, and custom analytics views
- **Technologies:** Next.js 15, TypeScript, Prisma ORM, PostgreSQL, Clerk Auth, React Query, Tailwind CSS, PWA, Vercel

BrainWise.pro – AI-Powered Brain Health Awareness & Diagnostics Platform

[Live Platform](#)

- Built as a free, research-driven tool to raise awareness and provide accessible brain health diagnostics
- Developed **3 clinical-grade AI models** (Stroke: 95%, Tumor: 95% w/ ResNet50, Alzheimer's: 94% w/ EfficientNet) based on published methodology
- Architected a distributed system with Hugging Face Spaces, achieving **60–75% model size reduction** via quantization
- Designed **15+ interactive cognitive tests** (e.g., memory, reaction time, pattern recognition) with performance tracking and personalized insights
- Built a real-time medical image processing pipeline for MRI scans with HIPAA-compliant data management
- Integrated academic paper APIs to provide live literature feeds and evidence-based brain health education
- **Technologies:** Next.js 14, TypeScript, TensorFlow.js, FastAPI, MongoDB, Hugging Face, Uploadcare CDN, Docker, PWA

Pantry Panic - AI Inventory Management System

[Live Link](#)

- Built predictive inventory system using machine learning algorithms with **85% accuracy** in demand forecasting
- Implemented real-time stock tracking with automated reorder suggestions and user behavior analytics
- **Technologies:** Next.js, Firebase, ML Algorithms, Analytics, Predictive Modeling

LEADERSHIP & ACHIEVEMENTS

- **Google Developer Student Club (GDSC) Lead:** Organized **20+ technical events** and workshops at Amity University
- **Women's Day Coordinator - GDG Lucknow:** Community engagement and diversity initiatives (**90+ attendees**)
- **Published 2 IEEE research papers** with practical AI implementations and novel algorithmic approaches
- **Mentored 10+ junior developers** in full-stack development practices and best coding standards

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C++, SQL

Frontend Technologies: React, Next.js, HTML5, CSS3, Tailwind CSS, Shadcn UI, PWA Development

Backend & Database: Node.js, Prisma ORM, PostgreSQL, MongoDB, API Design, Database Architecture

Cloud & DevOps: Vercel, Supabase, Firebase, Git, CI/CD, Performance Optimization

AI/ML Technologies: TensorFlow.js, PyTorch, ResNet50, EfficientNet, Random Forest, Hugging Face, FastAPI, Docker, Medical AI