



# BURHAN AQEEL

SOFTWARE ENGINEER

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## SUMMARY

Versatile and results-driven Software engineer with strong foundation in building high-performance web applications using Python, Django, and the MERN stack.

Experienced in leading full-stack projects, integrating AI-powered features, and developing real time, scalable solutions.

Known for rapid learning, adaptability, and a passion for building inclusive, accessible solutions that solve real-world problems.

## TECHNICAL PROJECTS

### AudioX - An Audiobook Platform

Final Year Project | Role: Lead Developer

Technologies Used: Django, Python, Edge TTS, AI APIs, Django Channels, HTML, Tailwind CSS, JavaScript & Git

- Designed and developed an end-to-end audiobook platform that converts documents into audio using AI-powered text-to-speech, improving content accessibility for users across Pakistan.
- Integrated AI-based content summarization features to help users preview lengthy audios quickly and effectively.
- Solved a local market need by introducing regional language support for audio content, making the platform inclusive and culturally relevant.
- Enabled real-time user communication through Django Channels, supporting live chat features between users and support teams along with dedicated community chatrooms.

### Spam Email Detector – Machine Learning Classifier

Academic Project | Role: Machine Learning Developer

Technologies Used: Python, Jupyter Notebook, Scikit-learn

- Designed and built a complete spam email detection system using Natural Language Processing and machine learning.
- Implemented advanced text preprocessing techniques including tokenization, lemmatization, and stopword removal for clean and accurate input.
- Trained and evaluated a Linear Support Vector Classifier using a dataset of 5,000+ labeled emails, achieving high precision and recall.
- Developed a clean and responsive GUI interface with Tkinter for real-time spam classification and user-friendly interaction.

### Gym Management System - Bridging Multiple Branches into a single system

Academic Project | Role: Full-Stack Developer

Technologies Used: MongoDB, Express.js, React.js, Node.js, JWT, REST APIs, Git

- Developed a full-featured Gym Management System using the MERN stack to help gym franchises manage multiple branches under a single platform.
- Solved a key operational problem by allowing centralized admin access while keeping each branch's operations independent and secure.
- Implemented role-based authentication and access control using JWT to ensure secure, branch-specific data visibility and operations.
- Created dynamic dashboards for both admins and branch managers to monitor memberships, track payments, and manage trainers and client records in real-time.
- Built responsive UI with React.js, styled for a clean and modern user experience, adaptable across devices.

## EDUCATION

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### Bachelor of Computer Science | July 2025

Riphah International University

- Specialized coursework in software engineering, data structures, and systems architecture with practical exposure to real-world computing challenges.
- Studied core subjects including programming, software engineering, databases, and computer systems with hands-on project work.

Bahia Town College

### Intermediate | August 2020

- Focused on foundational subjects including Mathematics, Physics, and Chemistry with strong analytical and problem-solving development.
- Developed a strong academic foundation in engineering principles, which later supported a smooth transition into computer science and technology domains.

### Matriculation | May 2018

Pakistan International School, Al Khobar

- Studied core science subjects including Biology, Chemistry, Physics, and Mathematics with a focus on academic discipline and conceptual understanding.
- Built early interest in scientific thinking, leading to a shift toward engineering and technology in higher education.

## TECHNICAL SKILLS

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- **Languages & Frameworks:** Python, HTML, JavaScript, Django, MERN Stack (MongoDB, Express.js, React.js, Node.js)
- **Web Development:** Full-stack web apps (Django, MERN), responsive front-ends with React.js and Tailwind CSS
- **Databases:** PostgreSQL, MongoDB, Firebase, basic exposure to Amazon RDS & DynamoDB
- **APIs & Realtime Systems:** REST APIs, AI API Integration, Django Channels, Web Sockets
- **Tools & Platforms:** Git, GitHub, VS Code, Firebase Console, Jupyter Notebook
- **Security & Auth:** JWT, OTP Verification, Role-Based Access Control

## CERTIFICATIONS

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- **AWS Academy Graduate – Cloud Architecting**

Amazon Web Services (AWS) | Issued Jan 2025

Gained foundational and practical knowledge in designing scalable, secure, and cost-optimized infrastructure on AWS. Covered core services, architecture best practices, and real-world deployment strategies.

- **Oracle SQL Databases**

LearnQuest | Issued Jan 2023

Covered Oracle SQL fundamentals, relational database design, Oracle SQL Developer, and network-aware data handling.

- **HTML, CSS, and JavaScript for Web Developers**

Johns Hopkins University | Issued Dec 2022

Focused on front-end web development including responsive web design, cross-platform usability, and dynamic web applications using AJAX.

- **Introduction to Artificial Intelligence**

(AI) IBM | Issued Jan 2022

Covered key AI concepts including Generative AI, Natural Language Processing (NLP), Risk Mitigation, and Robotic Process Automation (RPA).

## ACTIVITIES & COMPETATIONS

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### Cricket Achievements

- Represented school, college, and university in their official cricket teams as an all-rounder, known for both consistent batting and impactful bowling performances.
- Selected for university cricket tournaments at inter-university level based on leadership, discipline, and skill.
- Demonstrated leadership and sportsmanship, often entrusted with key middle-order batting roles and handling pressure situations.
- Balanced academics and sports through time management and team collaboration, reflecting strong work ethic and discipline.

### Hackathons & Technical Competitions

- Participated in various university-level hackathons, showcasing innovation in web and mobile app development under time constraints.
- Competed in coding challenges and tech competitions to expand technical expertise and gain industry exposure.
- Engaged in team-based problem-solving, pitching real-world solutions to judges and industry mentors.
- These experiences strengthened practical coding, rapid prototyping, and collaborative development skills under pressure.

## CORE COMPETENCIES

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- Team Leadership & Communication
- Time Management & Multitasking
- Agile & Sprint-Based Development
- Creative Problem Solving
- Learning Mindset & Adaptability

## LANGUAGES

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- English - Professional Proficiency
- Urdu - Native
- Punjabi - Native
- Arabic - Basic Conversational