

Ahmed Khilji

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Brief

Graduate of Software Engineering with experience in HTML, CSS, JavaScript, React, Java and C++ seeking a full-time role in full-stack development. Proficient in building responsive web applications using modern frameworks, with a passion for integrating AI technologies to enhance user experiences. Eager to contribute to innovative teams in app or platform development.

Projects

Twitter Clone

- Developed a full-stack Twitter clone with a registration and login system, using React, Next.js, Firebase, Redux, and Tailwind CSS.
- Implemented core functionality, including the ability for users to tweet, comment, and delete posts.
- Ensured security by integrating Firebase authentication and securing user data with real-time updates.
- Optimized performance and scalability through a well-structured architecture, allowing the application to manage multiple user interactions smoothly.
- Delivered the project within a tight deadline, showcasing my ability to rapidly develop and deploy a robust web application. This project enhanced my expertise in state management and full-stack development, from frontend design to backend integration.

Netflix Clone

- Leveraged Movie API to develop a responsive website featuring subscription, login, signup functionalities, and trailer preview capabilities, providing a user experience like Netflix.
- Demonstrated proficiency in reading and implementing API documentation to seamlessly integrate third-party data into the platform.
- Utilized a modern tech stack, including React, JavaScript, HTML, CSS, Next.js, Firebase, TypeScript, and Tailwind CSS, to deliver a robust, responsive web application.
- Enhanced user interaction by ensuring smooth data flow between the frontend and backend, while maintaining performance and scalability.

Responsive E-Commerce Book Store

- Developed a web-based application using React, HTML, CSS, and JavaScript to facilitate seamless book purchases, with a focus on creating a fully responsive, mobile-friendly user experience.
- Demonstrated meticulous attention to detail, ensuring consistent performance and an optimized user interface across devices and platforms, improving accessibility and usability.

UTS Staff Administration System

- Utilized Object-Oriented Programming (OOP) principles with Java to develop a Graphical User Interface (GUI) program, enabling staff to efficiently add, delete, and edit student information.
- Applied core OOP concepts such as inheritance, encapsulation, and polymorphism to ensure a well-structured and maintainable codebase.
- Enhanced project understanding by incorporating UML diagrams and design patterns like MVC (Model-View-Controller), improving both my conceptual and practical grasp of OOP. This project deepened my knowledge of building user-friendly interfaces while reinforcing fundamental OOP skills.

Course Recommendation System

- Developed a full-stack course recommendation website using HTML, CSS, and JavaScript for the frontend, integrated with a Python-based backend utilizing Fast API and MongoDB.
- Leveraged Fast API to implement secure and scalable RESTful APIs for recommending student courses based on their interests and hobbies.
- Integrated MongoDB with Motor for asynchronous database operations, enabling efficient handling of large datasets and real-time recommendations.
- Applied CORS middleware to manage cross-origin requests, ensuring secure and controlled access to the APIs from the frontend.
- Enhanced system performance by implementing query optimization techniques in MongoDB aggregation pipelines to match and sort courses based on student interests.
- Tested and deployed the application using automated testing tools and handled backend hosting with AWS Lambda through Mangum for serverless deployment, ensuring high availability and scalability.

Portfolio Website

- Developed a responsive website using HTML, CSS, and JavaScript, incorporating modern design features such as dark mode, pop-up windows, and interactive animations to enhance user engagement.
- Integrated EmailJS for seamless handling of website inquiries, enabling users to send messages directly through the website with real-time email notifications.
- Ensured full responsiveness, optimizing the website for both desktop and mobile devices to provide an optimal user experience across all platforms.

Smart Home Plant Pot

- Designed and programmed a plant pot using Arduino and C++ to monitor temperature, humidity, and soil moisture through integrated sensors.
- Customized and adapted the system for various plant types by utilizing a built-in database, ensuring flexibility for different plant care needs.
- Displayed ideal ranges and emoticon feedback on an LED screen, providing users with real-time insights into plant health and environment conditions.

Experience

Frontend Engineering Intern - <https://chaos1.au/>
CHAOS1– Part-time

Aug 2023 – Nov 2023

- **Development:** Pioneered the development of a streamlined task management dashboard using HTML, CSS, JavaScript, React, and Tailwind, improving team efficiency by optimizing task workflows and reducing organizational complexity.
- **AI-Driven Solutions:** Collaborated with my frontend team to design and implement a dashboard showcasing diverse AI prompts and insights, enhancing decision-making for military personnel through real-time information access.
- **Testing & Backend Integration:** Assessed and Tested LLM features, ensuring the successful integration of AI into the platform, while working closely with the backend team to design scalable solutions.
- **Cross-Functional Teamwork:** Facilitated cross-team collaboration, streamlining communication among teams using JIRA and GitHub, ensuring smooth project progress and adherence to deadlines.

Engineering/Project Managing Intern - <https://newcon.com.pk>
NEWCON Australia Consultancy – Full-time

April 2021 – Oct 2021

- **Project Management:** Led project management for the installation of solar panels on farms, coordinating cross-functional teams, securing senior management approvals, and ensuring successful project execution within timelines.
- **Stakeholder Satisfaction:** Led the technical management of solar panel installations on farms, coordinating with cross-functional teams and stakeholders to meet customer requirements, secure senior management approvals, and deliver projects that exceeded customer expectations.
- **Stakeholder Communication:** Effectively communicated with different councils, companies, and multiple stakeholders throughout the project, facilitating successful delivery and ensuring all parties were aligned and informed.
- **Demonstrated adaptability and critical thinking:** Effectively addressed challenges by adjusting strategies to meet changing project requirements. Quickly learned new concepts and applied problem-solving techniques to ensure the successful installation of solar panels, contributing to project success and stakeholder satisfaction.
- **Timely Project Delivery:** Managed the technical aspects of solar panel installations on farms, coordinating with cross-functional teams and stakeholders to meet customer requirements, secure senior management approvals, and ensure timely project delivery.

IT/Business Administrator
Penrith Council – Full-time

Jan 2018 – May 2018

- **Optimized Data Analysis for Decision-Making:** Spearheaded the integration of data analysis tools to streamline invoice tracking and IT asset management, which reduced processing times by 15% and enabled more informed decision-making.
- **Mastered Office and Management Tools:** Expertly utilized Microsoft Office Suite, project management software, CRM systems, and database management tools to track and streamline administrative tasks. This led to a 10% improvement in project coordination efficiency and more accurate reporting across departments.
- **Improved Customer Service Response Time:** Implemented customer service improvements using CRM systems, resulting in a 20% reduction in response time to inquiries and ensuring timely resolution of client issues.
- **Enhanced Project Management:** Leveraged these tools to plan, monitor, and coordinate multiple projects simultaneously. Ensured clear task delegation and timeline adherence, facilitating seamless stakeholder communication and successful project delivery ahead of schedule.

Education

Bachelor of Software Engineering – 5.63/7 GPA

University of Technology Sydney

- **Distinctions:** Database Fundamentals, Software Architecture, Business Requirements Modelling, Interrogating Technology, Prototyping Physical Interaction, Software Design Studio, Engineering Project Management, Math Modelling 2, Engineering Research Preparation
- **High Distinction:** Systems Testing & Quality Management, Engineering Capstone.
- **Credits:** Data Structures & Algorithms, Applications Programming, Advanced Interaction Design

Technical Skills

Languages: HTML5 | CSS3 | JavaScript | Java | C++ | Python | TypeScript

Frameworks: React | Next.js | FastAPI

Technologies: Git | Firebase | MongoDB | RESTful APIs | EmailJS | Arduino

Tools: GitHub | JIRA | Docker | AWS Lambda

Database: MongoDB | Firestore

Design: Tailwind CSS | Responsive Web Design | UI/UX Principles