

# Ahmed Khilji

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## Education

### Bachelor of Software Engineering

Graduated 2024

University of Technology Sydney | First Class Honours | Dean's List 2025

## Work Experience

### Junior Full Stack Developer

EPIUSE – Full-time

Jan 2025 – Present

- Owned development of new features across multiple React, Next.js and SAPUI5 applications (Variation Transfer, FlexSheet, Parental Leave), delivering UI enhancements and API integrations that reduced manual HR processing time by 20–30% for client teams.
- Built and extended Backend Services and CAP services on SAP BTP, adding new endpoints, validation layers, and custom server logic used in production, improving data accuracy and reducing integration errors by ~40% across SuccessFactors workflows.
- Collaborated with cross-functional teams (consultants, QA, backend, and integration specialists) using JIRA, Bitbucket, and BTP tools to deliver sprint work consistently while maintaining high-quality code.
- Improved code quality through refactoring outdated logic, restructuring UI components, and adding missing validations, resulting in cleaner codebases and fewer production defects across internal projects.

### Frontend Intern

CHAOS1 – Part-time

Aug 2023 – Nov 2023

- Built a task management dashboard using React, JavaScript, and Tailwind, helping the team track tasks in one place and speed up daily workflow reviews by ~30%.
- Developed an AI prompts dashboard that displays different LLM prompts and outputs in real time, giving military personnel faster access to planning information and reducing manual lookup time by ~40%.
- Tested and validated LLM features, finding bugs, fixing prompt issues, and working with the backend team to ensure stable API responses and smooth data flow, increasing feature reliability by ~25% during testing cycles.
- Coordinated work between frontend and backend teams using JIRA and GitHub, which reduced communication delays and helped us deliver sprint tasks on time.

### Engineering/Project Managing Intern

NEWCON Australia Consultancy – Full-time

April 2021 – Oct 2021

- Managed end-to-end project delivery for solar panel installations on multiple farms, coordinating engineers, contractors, and stakeholders to deliver projects on time and within scope.
- Handled stakeholder communication with councils, suppliers, and farm owners, ensuring approvals, documentation, and installation plans were completed without delays.
- Resolved on-site and technical issues, adjusting plans when farm layouts, weather conditions, or supplier changes affected the installation schedule, helping keep project delays under 10% of the original timeline.
- Improved project tracking by organizing requirements, technical drawings, and approval documents, reducing back-and-forth communication time by ~25% between teams.

### IT/Business Administrator

Penrith Council – Part-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.

## Projects

### Inkwise – Whiteboard AI

- Developed an interactive whiteboard application using React, Google Generative AI, Tailwind CSS and Firebase, allowing users to draw, add text, and manipulate objects with features like undo/redo, object copying, and image export.
- Implemented user authentication and secure login functionality using Firebase Authentication, enabling users to sign up, log in, and access personalized whiteboard sessions.
- Integrated AI-powered tutoring functionality using Google Generative AI, providing real-time hints and feedback on mathematical problems based on user input and whiteboard interactions.
- Designed a responsive and visually appealing user interface with Tailwind CSS, including chat box interactions and modals for enhanced user experience across devices.

### Twitter Clone

- Developed a full-stack Twitter clone with user management, using React, Next.js, Firebase, Redux, and Tailwind CSS.
- Implemented streamlined state management and core functionality through developing key features such as the ability for users to tweet, comment, and delete posts. Utilized Reacts component architecture and hooks to manage state efficiently, ensuring smooth updates and user interactions across the application.
- 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.
- Rapidly developed and deployed a robust web application, delivering the project within a tight deadline.

### 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.

## Technical Skills

**Languages:** JavaScript, TypeScript, HTML5, CSS3, Python, Java, C++

**Frameworks & Libraries:** React, Next.js, FastAPI, SAPUI5, Node.js

**Databases:** MongoDB, Firestore

**Tools & Platforms:** Git, GitHub, Docker, JIRA, AWS Lambda, Firebase

**Design:** Tailwind CSS, Responsive Web Design, UI/UX Principles