

Abdullah Al Khalid

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Summary

Software engineer with a strong focus on system development, distributed systems, and real-time applications.

My journey in computer science kicked off in 2021 with C++, where I dove deep into game development. Over the course of my professional development, I developed a strong interest in full-stack web development. During this period, I dedicated two years to constructing projects utilizing Node.js as the backend framework and React as the frontend framework which I could barely finish. In the meantime, I've found myself drawn into Backend. The complexity of the engineering that goes under the hood attracts me the most. While design isn't my strong suit, I've got a solid grasp of front-end (React) engineering.

I currently am solely invested into backend development more appropriately system programming (Rust), micro services and distributed systems (Go).

Education

Bachelor Of Computer Science (Software Engineering) With Honours

Universiti Teknologi Malaysia (UTM), Skudai • 2021 - 2025

SKILLS & STRENGTHS

- Programming languages: Go, Rust, JavaScript, Python, Java, C++, Dart, etc.
- Frameworks: React, Node.js, Express.js, Django, JWT, Redux, Flutter, etc.
- Databases: MongoDB, Firebase, PostgreSQL, etc.
- Tools: Git, GitHub, Jira, Trello, Docker etc.
- Communication: Public speaking, Written communication, Technical writing, etc.
- Problem-solving: Analytical skills, Critical thinking, Troubleshooting, etc.
- Teamwork: Leadership, Collaboration, Communication, Conflict resolution, etc.

EXPERIENCE

Software Engineer Intern

DKSH

September 2024 – February 2025

Gained hands-on experience in application management, web development, and automation. Worked on real-world projects, collaborated with cross-functional teams, and enhanced my technical and problem-solving skills in a dynamic environment.

- Developed and customized landing pages, forms, and email templates using HTML, CSS, and JavaScript.
- Developed website development plugin.
- Collaborating with UX engineers and UI designers to make effective outcomes.
- Managed data migration and integration with SQL Server and MySQL databases.

PERSONAL PROJECTS

Full-Stack

Crab – A simple implementation of Database from scratch / Rust (Current) •🔗

- Implemented btree algorithm for faster indexing

Full-Stack

Platform - E-commerce / PostgreSQL, Express.js, React, Node.js, Redux, JSON Web Tokens (current) • 

- Designed & developed a modern responsive ecommerce site called "Platform".
- Secure backend development with authentication implemented through JWT, ensuring seamless integration and efficient data handling through robust API design and database management and migration with Prisma orm for further use cases.
- The implementation gradually portrays creativity and a relatively easy to use website.

Full-Stack

ToDoList - Tracker / PostgreSQL, Express.js, React, Node.js, Redux, JSON Web Tokens, Prisma, Tailwind, shadcn/ui

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- Developed a comprehensive online task tracking system called "ToDoList".
- Secure backend development with authentication implemented through JWT, ensuring seamless integration and efficient data handling through robust API design and database management and migration with Prisma orm for further use cases.
- The implementation gradually portrays creativity and a relatively easy to use application.

Activities & Competition

A Plastic Waste Management System - RecyclO (Project)

RecyclO is a groundbreaking project that aims to tackle the global plastic waste crisis through innovative solutions and collaborative efforts. With a mission to create a sustainable future, RecyclO is poised to significantly impact the environment and society as a whole.

Disaster Management - Flood Remission System (Project)

We developed a multipurpose app for disaster management, focusing on flood mitigation. The app uses real-time weather sensors and satellite imagery data to track flood conditions and forecast flooding events. It sends alerts to residents in flood-prone areas, giving them an early warning to act. The app also helps authorities coordinate rescue and relief efforts and shelter flood victims. The app has been used to save lives and reduce the damage caused by floods in several countries.

Licenses & Certifications

- React, NodeJS, Express & MongoDB - The MERN Fullstack Guide.
- AWS Academy Graduate - AWS Academy Cloud Foundations.
- International English Language Testing System.

Courses

- React, NodeJS, Express & MongoDB - The MERN Fullstack Guide by Maximilian Schwarzmüller & Manuel Lorenz.
- Product Management Bootcamp - HDNB
- Learn React by Bob Ziroll.
- MERN Stack Course - ALSO: Convert Backend to Serverless with MongoDB Realm by Beau Carnes.

REFERENCES

<p>Abdullah Al Noman Solution Architect DKSH CSSC 60000 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur, Malaysia.</p>	<p>Radziah Mohamad Department Director (Software Engineering) Faculty of Computing Universiti Teknologi Malaysia 81310 Skudai, Johor +60 19-717 1734</p>
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