Idris Aklan

0410-782-457 / idrix865@gamil.com / linkedin.com/in/idris-aklan/ / github.com/idris-Ak

EDUCATION

RMIT   Melbourne, VIC

Bachelor of Software engineering   *Feb. 2023 – Nov 2026*

EXPERIENCE

Software developer   June 2023 – Present

RMIT Computer Science and Information Technology Society   *RMIT, Melbourne*

- Developed client-side prototypes and full-stack web applications using technologies such as React, JavaScript, Node.js, Express.js, and MySQL.
- Designed and styled professional user interfaces for various web pages
- Collaborated with team members to brainstorm, design, and implement project features using agile methodologies.
- Utilized GitHub for version control, continuous integration, and collaboration on projects.
- Applied advanced programming techniques and design patterns to ensure modularity and maintainability.
- Conducted rigorous testing and debugging to ensure smooth user experiences and bug-free releases.

Tutor   Feb 2023– June 2024

Kumon   *Melbourne, VIC*

- Tutored students in math, providing personalized support and guidance.
- Assisted with organizing tutoring schedules and managing student progress.
- Worked with colleagues to improve tutoring programs and services.

PROJECTS

VetCare Platform / *ReactJS, Java, Node.js, PostgreSQL, OAuth, AWS, PayPal*   Jul 2024 – Nov 2024

- Built a comprehensive appointment scheduling system with secure data transmission using OAuth and encrypted sessions for user authentication.
- Integrated a microservices architecture with Java/Spring Boot and Node.js, supporting a MongoDB/PostgreSQL hybrid for fast, scalable CRUD operations.
- Configured cloud deployment on AWS with automated scaling; switched to PayPal for transaction handling with modal-based UX improvements.
- <u>Features</u>: Appointment booking, medical records management, prescription refills, educational resources, veterinarian dashboard.

SOIL Organic Food Grocer Website / *React, JavaScript, Node.js, Express.js, MySQL, JUnit, Git*   Mar 2024 – Jun 2024

- Developed a responsive, component-based UI in React with localStorage for session management and dynamic page rendering.
- Implemented RESTful APIs with Node.js and Express.js, integrated MySQL for user and product data, with secure CRUD operations and access control.
- Built an admin dashboard with GraphQL for real-time data querying and user activity analytics, using Material-UI for UI consistency and styling.
- <u>Features</u>: User authentication, profile management, product reviews, admin dashboard for moderation, secure data storage.

Maze Solver Expansion Pack / *Minecraft C++ API, mcpp, C++, Git*   Jul 2023 – Oct 2023

- Engineered a custom C++ maze-solving expansion within Minecraft using mcpp, with modular maze generation algorithms and advanced pathfinding logic.
- Designed data-driven, scalable maze structures with reusable C++ classes; implemented debugging tools for optimized performance within the Minecraft environment.
- Conducted end-to-end testing and performance tuning, achieving a stable 60 FPS integration on various hardware configurations.
- <u>Features</u>: Maze generation, player pathfinding logic, high frame rate stability, modular code for custom maze designs.

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL , JavaScript, HTML/CSS
Frameworks: React, Node.js, Spring Boot, Express.js, JUnit, Material-UI
Cloud & Tools: AWS, Docker, Git, VS Code, IntelliJ, GraphQL, PayPal API