Abdurrahman Faqih Bin Iskandar

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PROJECTS

3D Audio Visualizer
- An interactive web application using Next.js and Three.js to render real-time audio visualizations of songs uploaded by users.

Flappy Bird Clone
- Developed a fully functional Flappy Bird clone using NextJS, implementing accurate game physics, responsive collision detection, and smooth state management for an engaging and high-performance gaming experience.

Research Article Clustering Machine
- Developed and scripted a full stack task manager application in Java using IntelliJ Idea, Gradle, JUnit and JavaFx.

Swinburne FAQbot
- Created and augmented Swinburne FAQ dataset and used it to fine tune a pre-trained AI model to reduce manual search time, and enhance the speed at which users can find answers to their questions.

WORK EXPERIENCE

Software Engineer, Ractivi   **Aug 23 – Apr 24**
- Designed and developed user interface for onboarding of clients and paid courses using SvelteKit, GSAP and Supabase.
- Created custom animations using built-in Svelte animations and GSAP to enhance user experience and improve the visual appeal of the user interface.
- Designed and developed reusable customizable components in the code base for company wide use to reduce development time by 80%.
- Incorporated an AI-powered chatbot leveraging the ChatGPT API to provide real-time assistance to users within the context of the specific course materials to improve the learner experience on the platform.

Technology Graduate Associate (SEED), DBS Bank Ltd.   **Jan 21 – Jun 23**
- Developed a visualization platform for a batch monitoring system using Angular, D3.js, FastAPI and ElasticSearch to visualize batch run data, allowing users to quickly identify bottlenecks in batch runs and rectify them.
- Designed and developed a monitoring platform to display and visualize existing tech debts using Angular, Chart.js, ExpressJS and MariaDB for senior management to quickly have an overview of the health of the tech security in the department which would otherwise have taken hours to obtain.
- Scraped data from Hadoop APIs using Python and cron schedulers in order to extract useful metrics to be transformed and displayed on Grafana for analysis.
- Integrated a batch delay reporting feature into the visualization platform for L1 support teams to automatically send out delay reports with just one click of a button

- Developed the user interface for a batch simulation project which aims to create a digital twin of the batch jobs run by the TWS batch scheduler in order to view historical data, run simulations and conduct predictions on batch completion times.
- Managed and maintained the CICD deployment pipeline of projects into multiple different environments using Jenkins.

Backend Developer (Volunteer), Project Kampong   **Aug 20 – April 21**
- Maintained backend operations to ensure operability and scalability of the platform.
- Implemented new features such as Google and Facebook authentication using OAuth 2.0.
- Conducted biweekly team meetings as the scrum master to ensure the rest of the team was up to date on latest developments at the backend.
- Updated the Asana board and ensured clarity of individual tasks within team

Technology Intern, Makan Rescue   **Aug 19 – Nov 19**
- Leveraged on existing backend frameworks to create a layer of abstraction between the frontend and the cloud database.
- Developed a messaging bot which automated filtering of spam messages and posts

Assistant Mechatronics Engineer, Red Dot Robotics   **Jul 18 – Dec 18**
- Created a software to automatically read and parse electrical messages from a vehicle.
- Developed a safety system for operational vehicles which reduced workplace accidents by 50%.
- Tested and developed autonomous robots in industry which reduced labour costs by $10000.

EDUCATION

Swinburne University of Technology   **Jul 23 – Current**
- Masters of Information Technology

National University of Singapore (NUS)   **Aug 16 – Dec 20**
- Bachelor of Engineering (Mechanical), Honours
- 2nd Upper Class Honours
- Cumulative Average Point (CAP): 4.25 / 5.0

SKILLS

Programming Languages: JavaScript, TypeScript, HTML, CSS, Python, Java, C++, Bash
Frameworks: Svelte, SvelteKit, VueJS, Angular, React, Express.js, FastAPI, Next.JS
Databases: MariaDB, MySQL, PostgreSQL, MongoDB, Elasticsearch, Firebase
Others: GSAP, Figma, D3.js, Chart.js, Linux, Jenkins, Jupyter, Grafana, AWS, OraceCI, Azure, Hadoop
Languages: English (Fluent), Malay (Native), German (Basic), Korean (Basic)