SEAN MICHAEL

SOFTWARE ENGINEER

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SKILLS

- PHP
- Python
- Java
- Oracle DB
- JS / jQuery
- RESTful API / Postman
- Linux
- Git
- Agile

EXPERIENCE

Software Engineer at JurisTech (Feb 2024 - Present)

- **Lead the full-stack development of multiple PHP web applications**, implementing robust CRUD functionality, API integrations, and **adhering to complex business logic**, ensuring seamless user experience and functionality.
- **Developed and tested API endpoints and connectors** for one of Indonesia's largest multifinance companies, currently **processing thousands of customers' data daily**, enhancing operational efficiency and streamlining business workflows on a **nationwide scale**.
- **Lead the SIT phase of a project**, testing integrations between various client and company subsystems, ensuring functionality, and fixing them quickly. Was able to test, fix, and pass **95 out of 100 test cases one week earlier than expected deadline**

Software Engineer Intern at JurisTech (Nov 2022 - Feb 2023)

- Developed and tested **backend solutions** to process and store customer data, tailored to meet specific client business requirements.
- Mapped and **integrated incoming data from client systems** to internal databases, creating tables, triggers, and PL/SQL functions to ensure seamless data flow and functionality.
- **Documented key client meetings**, capturing action items and decisions related to system integrations and configurations, ensuring clear communication and accountability.

EDUCATION

Monash University Malaysia (Nov 2020 - Jun 2023)

Bachelor of Computer Science in Data Science, **GPA: 3.4/4**

Related courses: Big Data Management and Processing, Databases, OOP Design and Implementation, Software Quality and Testing, Mobile App Development, Algorithms and Data Structures

PROJECTS

Device Free Human Activity Recognition Using WiFi CSI and Visible Light Data

Designed a system that uses Wi-Fi signals and light sensors to detect human activities like standing, walking, and sitting, without relying on devices like phones or smart watches—utilizing only Wi-Fi routers and photodiodes.

Technologies used: Python, Pandas, TensorFlow, LSTM Neural Networks, ESP32

Full-stack React Web App: "Dear Stranger"

Built a full-stack web app with NextJS and hosted on Vercel, using AWS RDS PostgreSQL for database hosting. The app allows users to send and receive anonymized letters, encouraging open expression and idea-sharing. Integrated Prisma for database management, NextAuth for authentication, Nodemailer for email, and TensorFlow.js for filtering toxic content.

Link: dearstranger.co