

Budi Syahiddin

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Nationality: Singaporean

EDUCATION

Nanyang Technological University

Bachelor of Engineering in Computer Science (Penultimate Year)

Singapore

Aug 2021 - May 2025

Singapore Polytechnic

Diploma in Information Technology

Singapore

Apr 2016 - Apr 2019

EXPERIENCE

Solutions Consultant Intern (LLM + Prompt Engineering Focused)

Government Technology Agency Singapore | Python · TypeScript · SolidJS · Langchain

Singapore

May 2023 - Sep 2023

- **Researched** large language models (LLMs) and their applications in the public sector for software engineering
- **Spearheaded** an LLM agnostic Visual Studio Code (VSCode) extension to aid developers in writing code and reading internal documentation.
- **Wrote** unit tests and **Gitlab CI/CD pipelines** for the VSCode extension and its components.
- **Improved** developers time to search for internal documentation by **50%** using LLMs and Retrieval Augmented Generation (RAG).

CyberNSF

Home Team Science & Technology Agency (HTX) | Python · JavaScript · C · Rust

Singapore

Feb 2020 - Aug 2021

- **Researched** various technologies, vulnerabilities and developed tools to aid digital forensic examinations.
- **Reverse-engineered** binaries and firmware of devices to improve data extraction capabilities.
- Commissioned **300 digital forensic kiosk** across different Police Land Divisions.

Software Engineering Intern

Jobtech Pte Ltd | VueJS · JavaScript · TypeScript · Java · JSP

Singapore

Oct 2018 - Feb 2019

- Jobtech Employer is one of Jobtech's flagship products to streamline hiring process for employers and recruiters. **Improved frontend performance by 50%** using caching techniques. **Built, maintained & improved version 3 of Jobtech Employer.**
- **Rapid prototyped new products** and experimented with different data visualization libraries.
- **Maintained and fixed bugs** of current codebase while developing new products in parallel.

COMPETITIONS

SCDF and DELL Lifesavers' Innovation Challenge 2022

Finalist

Singapore

Jul 2022

PROJECTS & OPEN SOURCE CONTRIBUTIONS

lta-rs

Maintainer | Rust · Git · Github Actions

Open Source

Mar 2019 - Present

- Developed a http library to interact with LTA's datamall servers, with first class support for async requests. **ALL APIs documented** with examples on docs.rs. **First** open source library to support **ALL datamall's endpoints** and supports **high performance serialization/deserialization**. Deployed **CI/CD for automated testing** and **documentation generation**. Has been downloaded **4300** times.

What2EatSG

Team leader | Java · Git · Github Actions · VueJS

School Project

Aug 2022 - Nov 2022

- Developed a **kahoot-like** platform for group of people to get recommendation of eateries based on individual preferences. Integrated **Google Maps API** to allow users to easily decide places of interest in Singapore. **Led** team members to ensure high quality code and delegated work based on strengths.

SKILLS

Languages: English, Malay, Bahasa Indonesia

Programming Languages: Rust, Java, C, C++, JavaScript, Python, Kotlin, TypeScript

Tools & Technologies: NodeJS, VueJS, Linux, Docker, Terraform, Github Actions, SQL, x64Dbg, L^AT_EX, Postgres, Jest, SolidJS, Tailwind CSS, Langchain