ADI NATA

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WORK EXPERIENCE

Vital Thin Film Singapore (VTFS), Software Engineer   **Apr 2024 - Current**

- Developed internal task monitoring ReactJS web application and Qt C++ desktop tools for manufacturing machines
- Led configuration and deployment of server and network infrastructure, including Meraki networking and Dell servers

Continental Automotive, Embedded Software Engineer   **Feb 2023 - Mar 2024**

- Collaborate with multinational teams under SAFe Agile methodology to design and develop high-performance network communication APIs between vehicle firmware and cloud server via HTTP and MQTT connection in C and C++ on a Linux environment
- Improve the existing Makefile to quicken the firmware compilation process
- Contributed to the integration of DevOps pipelines with Git, Jenkins, and Grafana for development, testing, and integration

National University of Singapore, Research Assistant   **Jan 2022 - Jun 2022**

- Research on application of CNN on Malaria Cell Infection Detection Tool on Microscope Imaging in Python with TensorFlow, Open CV and sklearn
- Accuracy of model 91%

Workforce Optimizer, Business Analyst Intern   **Jun 2021 - Dec 2021**

- Create API to predict manpower demand for upcoming dates in a certain location based on past data using the LSTM model in Python
- Design suitable database structure in PostgreSQL and integrate database to API

National University of Singapore, Teaching Assistant   **Jun 2020 - Jun 2022**

- Provide teaching for 200+ students about C programming fundamentals
- Average teaching rating of 4.7/5

Wiridis, Fullstack Developer Intern   **Nov 2020 - Jan 2021**

- Create basic frontend website components (i.e., buttons, layout, etc) template with Nuxt JS, Vue, Sass

IB Super, Physics Tutor + Developer   **Jan 2019 – Dec 2021**

- Provide personal tutoring for IB students
- Implement summary tool for tuition session in Python using Chat GPT API and Telegram Bot

PROJECT

BestFit (MERN)   **May 2020 - Jun 2020**

- Online apparel shopping platform using ReactJS integrated with encryption, profile picture, and payment system with AWS and Stripe API

Laser Tag (IoT)   **Mar 2022 - Jun 2022**

- Built a virtual laser tag system integrating handheld IoT gear with a real-time locally-hosted game server in Python and C
- Integrated secure communication between devices with TCP under an SSH tunnel

- Implement multithreading and message queues for data processing in game server
- Integrated Bluetooth communication between internal firmware modules

EDUCATION
National University of Singapore (NUS)   **Aug 2019 – Dec 2022**
Bachelor of Engineering (Computer Engineering)
- Minor in Financial Mathematics
- CAP: 4.17/5 (Second Class Honours)

ADDITIONAL INFORMATION
- Tech Stack: C, C++, Javascript, Python, Web development (ReactJS, Nodejs), PostgreSQL, MongoDB, Linux, Docker, Kubernetes, AWS tools (EC2, S3, Lambda)
- Languages: English, Indonesian, and Mandarin (both spoken and written).