Dany Raihan

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Skill

Programming languages: C#, C++, JavaScript, TypeScript, Solidity, Python, R, Java
Tools: Visual Studio, IntelliJ IDEA, Arduino IDE

Project

Genta: Document Search   **August, 2023 – Present**
Group Project   **Tool: Next.js, ReactJS, ONNX, Node.js**   **Language: TypeScript, HTML**

As a software developer, I am designing model selector for PDF question-answering from HuggingFace's transformer model
- Implemented NextUI library as a closure component in the project.
- Currently building model selector from HuggingFace to be implemented in javascript with Transformer.js

Bookmarq: bookmark-sharing platform   **Sept, 2023 – Present**
Personal Project   **Tool: Next.js, ReactJS, Node.js, Tailwind, MongoDB**   **Language: Javascript, HTML**

As a full-stack developer, I built the website-interface where users can login, share their bookmarks, add description and label them based on tags
- Implemented authentication using Google Auth that tracks user's activity and sync it real-time to the database.
- Constructed document-oriented database using MongoDB Atlas and designed schema models with Mongoose for User, Post, and Group.
- Added creating, retrieving, updating, and deleting (CRUD) interactions on post schema based on authentication.

Hardhat-fund-me-bp   **Nov, 2022 - Dec, 2022**
Personal Project   **Tool: Hardhat, Ganache**   **Language: Solidity, Javascript, HTML**

As a developer, I created the boiler-plate project for decentralized crowdfunding website with basic smart-contracts, a unit test, and a deploy script
- Constructed payable smart-contract interactions to send and withdraw Ethereum token.
- Designed a thorough test unit for the solidity contracts that covers reentrancy and unprotected functions.
- Prepared a deployment mock script and a customizable script to deploy solidity contracts to Georli testnet.

Safecious: Body Temperature Monitoring Wearable   **June, 2021 – July, 2021**
Research   **Tool: Arduino IDE, Fritzing**   **Language: C++**

As a researcher, I developed a small-scale decentralized body temperature wearable using ESP32 development board and MCP9808 module
- Customized power management system and temperature modules layout in the board using Fritzing
- Implemented a data parser to extract data from Serial Data Line (SDA)
- Constructed real-time connection to ThingSpeak API public channel.

Award

Best Overall Research Project   **August, 2023**
UBC Vantage College Capstone Conference

As group of 4, we applied Self-Organizing Matrix (SOM) clustering to identify the characteristic of P-53 gene mutation

Undergraduate Degree Scholarship   **Sept, 2022 – May, 2026**
Sponsor: Indonesia Ministry of Education

As a high school student, I received a full-ride undergraduate degree scholarship (worth over $250.000 covering tuition, living expenses and more) for performance in the Indonesia Informatics Olympiad 2020

Academic Program

University of British Columbia   **Sept, 2022 – May, 2026 (expected)**

Bachelor of Science, Major in Computer Science