Faa'iz Haikal Hilmi

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TECHNICAL SKILLS

Languages: C, C++, Python, Javascript, SQL, PHP, Java, Go
Tech: Git, GoFiber, Node.js, React.js, Vue.js, Laravel, SQL, MongoDB, Flask, Jira Software, gRPC, ROS2, ElasticSearch, Kafka

EXPERIENCES

SDPPI Kominfo   **Surabaya, Indonesia**
AI Developer   **August-December 2024**
- Developed a face recognition and text-to-speech feature using Python on the RAISA robot, a robot assistant currently placed in SDPPI Kominfo, to identify and greet faces during operation.
- Designed and built a full-stack face recognition management system app with a React frontend, a MongoDB database, and a Node.js backend.

ICHIRO ITS   **Surabaya, Indonesia**
Chief of Programming Division   **December 2022-Present**
- Managed 7 members of the programming division using Jira Software in an agile software development.
- Collaborated with team members across different divisions (electric, mechanic, and official/non-technical division).
- Took part in regional, national, and international robot competitions.
- Worked on research and task including:
    - Implementation of Inverse Perspective Mapping for object's relative position to robot in Python and C++.
    - Web-based robot's motion editor using React.js with gRPC-Web and gRPC C++ server.
    - Developed robot programs within both a C++ monolithic framework and microservice ROS2 framework.

PROJECTS

Spendiary   **January 2025 - Present**
- Developing a personal finance tracker app with a Flutter frontend and GoFiber backend using PostgreSQL.
- Implemented user authentication with JWT access and refresh tokens, and structured a scalable backend architecture.

KickVerse   **September-October 2024**
- Developed a full-stack e-commerce platform using Laravel, Livewire, Flowbite, with a PostgreSQL database.
- Implemented core CRUD actions for products and advanced image search using Roboflow API.

SliceIt   **October-December 2023**
- Developed a fruit-slicing game in Java, where users can slice thrown fruit.
- Implemented core game mechanics, including slicing interactions and object physics.

AWARDS

Robocup Humanoid League Kid Size 2024   **Eindhoven, Netherlands (July 2024)**
- Competed against many teams from around the world including Australia, Japan, China, South Korea, United Arab Emirates, Iran, United Kingdom, Germany, Brazil, Canada, and Mexico.
- Achieved first place in the Technical Challenge category and third place in the Round Robin category.

Kontes Robot Sepak Bola Humanoid Indonesia (KRSBI-H) 2024   **Solo, Indonesia (May - July 2024)**
- Competed against many teams from universities around Indonesia including Polibatam, Polinema, PNP, PNUP, UAD, UB, UNDIP, UGM, UNM, UNS, dan UNY.
- Achieved first place both in Regional Round and National Round and received Best Strategy award.

EDUCATION

Institute Technology of Sepuluh Nopember   **Surabaya, Indonesia**
Informatics Engineering   **July 2022 - Present**
- Current GPA: 3.80.
- ITS English as Foreign Language Test Score: 563.
- Expected graduation: December 2026.