William Wesley Sianto

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EDUCATION

University of Toronto, Canada
Bachelor's Degree of Mechanical Engineering and a Minor in Artificial Intelligence Engineering   September 2022 - Present

General Assembly, Remote
Certificate of Completion, Software Engineering Immersive (SEI)   *June 2023 - September 2023*

SKILLS

Languages: JavaScript, HTML, CSS, Python, SQL, JSON, EJS, Handlebars, MATLab, Simulink, Bash, C, C++
Libraries and Frameworks: ReactJS, React Native, Express.js, Node.js, SpingBoot, Django, Bootstrap, PyTorch, TensorFlow, Mongoose, ROS
Database: PostgreSQL, MongoDB, MySQL, Neon
Other: RESTful Routing, REST API, JSON API, MERN Stack, Postman, Alteryx, Tableau, Git / GitHub, Linux, Visual Studio Code, Agile, Scrum, MS Word, MS PowerPoint, MS Excel, MS Outlook, AWS, Google Cloud
Spoken Languages: English (Fluent), Bahasa Indonesia (Fluent), Chinese (Conversational)

PROJECTS

DeepHoopers | Machine Learning Engineer   *October 2023 - November 2023*
- Technologies: Python3, TensorFlow, PyTorch
- Collaborated in a three-member team to develop a GRU encoder-decoder + GAT model, achieving 85-90% accuracy in predicting basketball trajectories up to 15 seconds ahead.
- Spearheaded GAT, GCN, and baseline model implementation in PyTorch, as well as the execution of hyperparameter tuning, and performance evaluation through extensive testing of the final model using test data.

Home-Sweet-Home App (Real Estate App) | Full Stack Developer   *August 2023*
- Technologies: Python, Django, HTML, CSS, PostgreSQL, Materialize Framework, AWS, Neon
- Implemented a comprehensive CRUD system for property and furniture management, integrating Google Maps API for enhanced user experience.
- Enforced secure Django user authentication with user-specific authorization.

SecureTalk (Chat Application) | Full Stack Developer   *January 2024 - February 2024*
- Technologies: HTML, CSS, JavaScript, ReactJS, Express.js, MongoDB, Mongoose, Socket.io
- Engineered real-time messaging functionality, enabling seamless communication. Incorporated live-time message notifications to enhance user experience as well as robust user authentication protocols to ensure data security.
- Integrated user search functionality, enhancing user interaction and engagement. Also facilitated group chat formation features, promoting collaborative communication within the platform.

INTERNSHIP EXPERIENCE

IndoHybrid Bangun Estetika | Engineering Intern   *June 2020 - July 2020*
- Helped implement streamlined polishing processes, reducing project completion time by approximately 5-10% and optimizing resource usage, while also enforcing rigorous quality control measures for high-standard finished products.

Ehwa Indonesia | Manufacturing Engineer Intern   *June 2021 - July 2021*
- Contributed to the efficient production of precision diamond tools, meeting client deadlines and enhancing manufacturing processes by leveraging CAD software proficiency to reduce production time by approximately 7% through meticulous design of tool geometry and comprehensive simulation and analysis of tool performance under diverse conditions.
- Maintained detailed documentation to aid in performance evaluation and process optimization.

ORGANIZATIONAL EXPERIENCE

University of Toronto Aerospace Team | ADCS Space Systems Team   *September 2022 - May 2023*
- Assisted in simulating the reaction wheel using Simulink and devising comprehensive ADCS testing strategies to ensure reliable performance across various scenarios, thus contributing to the advancement of actuators and magnetorquers programming for the FINCH Mission satellite.

University of Toronto Formula SAE Racing Team | Driverless Perception Team   *November 2023 - Present*
- Developed a robust 2D/3D object tracking pipeline using ROS, C++, and Bayesian statistics for live tracking.
- Created algorithms to identify and categorize road elements.