William Edwardo Gunawan

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EDUCATION

Toronto Metropolitan University | Toronto, ON

Expected Graduation May 2025

Bachelor of Science in Computer Science

GPA:3.7

Coursework: Data Structures, Algorithms, Databases, Programming Languages, Data Science, Artificial Intelligence(AI), Machine Learning, Web Design and Development, Software Engineering, Computer Architecture, Operating System

SKILLS & TECHNICAL TOOLS

Languages: Python, Java, C, C++, HTML, CSS, JavaScript, Prolog, Bash, SQL

Technologies: Git, Node.js, Express.js, React.js, MongoDB, Postman, numpy, scikit-learn, pandas, matplotlib, TensorFlow **Interests:** Full-Stack Development, Software Engineer, Data Analyst, Data Science, Machine Learning, Artificial Intelligence

EXPERIENCE

Full-Stack Developer | Cove

May 2023 - Aug. 2023

- Developed web applications and components using a modern technology stack, including JavaScript, React.js, Node.js,
 Express.js, and MongoDB, to deliver high-performance loading time, and an improved user experience.
- Led the design and development of the Discord REST API using Node.js and Discord.js, enhancing the platform's capabilities and integrations. This involved architecting robust API endpoints and optimizing data retrieval, resulting in a 25% increase in data processing speed and a 20% reduction in API response time.
- Collaborated in an Agile environment and worked closely with cross-functional teams of talented developers to create innovative, high-quality products that exceeded client expectations. This teamwork fostered a dynamic and creative development environment, leading to successful project outcomes and customer satisfaction.
- Actively engaged in code reviews, offering constructive feedback and mentorship to fellow developers, contributing to
 the team's growth and the establishment of best practices for code quality and consistency.

PROJECTS

SageAI (GenAI Genesis Hackathon Winner) | Python, Node js, Express js, React js, MongoDB, Vertex AI, PyTorch

- Collaborated in a team of four to develop SageAI, an online web application platform designed to make healthcare diagnostics faster, more accurate in early disease detection, and increasing healthcare affordability.
- Integrated Google-BERT for textual symptom analysis and incorporated Google Imagen via Vertex AI for converting user-uploaded images into textual descriptions. This innovative approach allowed for comprehensive symptom analysis, achieving over 90% diagnostic accuracy across 41 unique diseases.
- Employed BiomedCLIP for scan type identification, directing scan results to the ResNet-152 model for disease diagnosis, reaching an accuracy of 87%.
- Utilized Node.js, Express.js, React.js, and MongoDB to develop a web application, creating a user-focused platform.

Heart Failure - Machine Learning Research | Python, Pandas, Numpy, Matplotlib, Scikit-learn, K-modes, Seaborn

- Leverage Python for data preprocessing, outlier removal, hyperparameter tuning and K-Prototypes clustering algorithm.
- To ensure robust and unbiased cluster formation, the elbow method was used for optimal cluster determination, leading to the identification of relevant patient subgroups with over 90% clustering accuracy.
- Contribute to the development of healthcare models, significantly improving patient care and reducing healthcare costs.

Buyyit | HTML, CSS, JavaScript, Node.js, Express.js, React.js, MongoDB, Jwt Authentication, Socket.io

- Led a group of 4 in the creation of a responsive classified ads platform for TMU students, featuring secure user authentication, a mobile-optimized interface, and an intuitive ad posting system.
- Implemented advanced search functionality, a secure communication platform, and an admin dashboard to facilitate easy management of ads and user interactions.

Rent-A-Ryde | HTML, CSS, JavaScript, Node.js, Express.js, SQL

- Designed and developed a Car Rental Service System with a visually engaging and intuitive user interface.
- Developed RESTful API endpoints and optimized complex SQL queries, resulting in a 25% improvement in data retrieval and loading speeds, significantly enhancing system efficiency.
- Revolutionized rental operations by designing a comprehensive Oracle database, streamlining processes and contributing to a 90% increase in customer satisfaction through improved service delivery and operational efficiency.