

William Edwardo Gunawan

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EXPERIENCES

Software Engineer (Back-end Data) | Fiscal.ai

Apr. 2025 - Jul. 2025

- Engineered a scalable **Python ETL pipeline** to extract and process SEC EDGAR filings (e.g., 10-K, 10-Q, 8-K, EX-99, press releases) for **4,000+** U.S. companies, covering up to **40** years of historical data.
- Achieved **98% extraction accuracy** for employee count and stock split data by leveraging Gemini LLMs in a multi-step, **chained LLM pipeline**, using advanced **prompt engineering** (persona roles, structured rules, JSON outputs) to process all filings.
- Improved parser performance by **30%** through weekly batch testing (100 companies/week) in collaboration with analysts, identifying edge cases and iterating on prompt and parser logic.
- Automated data refresh workflows using **AWS Lambda**, **S3**, and **Parquet**, enabling real-time detection of new filings and seamless updates to structured datasets with zero manual intervention.

Front-end Software Engineer | MedPass

Dec. 2024 - Mar. 2025

- Collaborated with project management and digital marketing teams to translate Figma designs into scalable web applications.
- Established and maintained front-end testing standards using Jest and React Testing Library, achieving over **90%** code coverage for critical components and reducing post-deployment bugs.

Software Engineer | Esportium

May 2024 - Aug. 2024

- Participate in designing and developing a scalable full stack program using **C#, ASP.NET, Typescript, React.js**, and **AWS RDS**.
- Conducted weekly iteration testing with beta users, leading to a **30%** improvement in application performance and a 50% reduction in average response time.
- Designed and implemented a **RESTful API** to facilitate **front-end** to **back-end** communication, improved application performance by **30%** and reduced average response time by **50%**.
- Designed and developed unit testing for controllers and services using **Moq** and **XUnit**, improving code coverage by **70%**.

Full-Stack Developer | Cove

May 2023 - Aug. 2023

- Contributed to the design and development of a scalable full-stack application using **React.js** for the frontend and **Node.js** for the backend, ensuring seamless performance and maintainability.
- Collaborated with cross-functional teams to integrate testing strategies into the **CI/CD pipeline**, which reduced deployment times by **50%** and minimized production issues by **20%**.
- Set up and maintained **MongoDB** database for storage, retrieval, and manipulation of data, leading to improved data accessibility.

Software Engineer Intern | PT. Rapier Technology International

Jan. 2020 - Apr. 2022

- Developed and maintained **RESTful APIs** using **Flask** and designed frontend components with **React.js**.
- Integrated **AWS S3** storage for scalable and reliable file management, leveraging pre signed URLs to enhance security.
- Established a CI/CD pipeline with **GitHub Actions** to automate testing and linting, improving code quality and reducing deployment friction by **40%**.

PROJECTS

[SageAI \(GenAI Genesis Google Hackathon Winner\)](#) | React.js, Node.js, Express.js, Python, MongoDB, PyTorch, VertexAI

- Developed an AI diagnostic tool by integrating **BERT** for textual symptom analysis, **Google Imagen** via **Vertex AI** for converting user-uploaded images into textual description, achieving over **90% diagnostic accuracy** across **41 unique diseases**.

[TrashCam \(HackTheValley 9 Hackathon Winner\)](#) | Next.js, TypeScript, PostgreSQL, Google Vision, Tensorflow, Gemini, OAuth

- Led development of a real-time waste sorting web-application using **Next.js** and **TypeScript**, increasing sorting accuracy by **85%** through AI-powered object recognition (**Google Cloud Vision & COCO-SSD**).
- Engineered a PostgreSQL database for optimized data management, supporting over **1,000 user records** with high availability.

[ALI \(Hack49 Hackathon Winner\)](#) | React Native, FastAPI, Python, Wave2Vec, Gemini, , Langchain, PyTorch, AWS S3

- Implemented a custom multiheaded-attention classifier integrated with Wave2Vec to continuously analyze speech for signs of cognitive decline, achieving a **90%** accuracy rate in early detection, leading to proactive cognitive health alerts.

[EcoFind](#) | Next.js, TypeScript, AWS, Supabase, Node.js, Python, OpenAI

- Designed and deployed a serverless architecture using **AWS** services such as **Cognito**, **API Gateway**, **Lambda**, and **DynamoDB**, , reducing infrastructure costs by **40%** and increasing application performance by **30%**.
- Integrated **Google Maps API** and browser-based **geolocation** services, enabling users to locate nearby 3D waste recycling facilities with **95%** accuracy, displaying distance and time estimates from the user's address to the nearest facility.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C++, C#, HTML5, CSS, SQL, Bash

Developer Tools: Git, Github, Docker, Redis, AWS, Azure, Google Cloud Platform, Postman, Linux, VS Code, Jira, Linear, Localstack

Databases: MongoDB, PostgreSQL, MySQL, Oracle, Supabase

Libraries/Frameworks: Next.js, Node.js, Express.js, React.js, React Native, Material-UI, ASP.NET, FastAPI, Django, TensorFlow, PyTorch, LangChain, Pandas, Websockets, OAuth, Auth0, Spring Boot, Agile

EDUCATION

Toronto Metropolitan University | Toronto, ON

Graduated with Distinction, 2025

Bachelor of Science in Computer Science (Dean's Honour List 2021-2025)