

JERMIN B. ODCHEO

Perth, WA • 0401 593 561 | jerminbodcheo@gmail.com | github.com/Jermin-Odcheo | linkedin.com/in/jerminodcheo | Australian Citizen

ABOUT

Fresh IT graduate with experience as a Full Stack Web Developer Intern, working on web applications, databases, and user features. I enjoy solving problems through code and am eager to keep learning and improving as a developer.

EDUCATION

Bachelor of Information and Technology - Saint Louis University

August 2021 - June 2025

Assessed by Dept. of Training & Workplace Development as comparable to the Australian Bachelor Degree

Graduation: July 2025

- Honor/Award: Dean's List
- Relevant Coursework: Programming, Data Structures, Data Analytics, Data Mining, Web Development, Machine Learning, Database Management System, Application Development, Computer Network, Project Management

EXPERIENCE

Saint Louis University

January 2025 - May 2025

Full Stack Web Developer Intern (Assistant Team Lead)

- Assisted the team lead in planning and developing system features, including CRUD audit logging using SQL triggers and role-based access control (RBAC) with PHP logic.
- Designed and developed an inventory management system from scratch, including database structure, indexing, and client-side filtering and pagination, reducing search time (~40%) and initial load by over 60%.
- Built export functionality with selectable columns and formats to reduce manual reporting and support requests.
- Supported IT onboarding during the early phase: created student user accounts, installed required software (MySQL, WAMP/MAMP), and upgraded PCs (SSD/RAM).

SKILLS

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| • Programming Languages: Java, Python, JavaScript, PHP | • Dev Tools: Git, GitHub, VS Code, Jupyter Notebook |
| • Frontend: HTML5, CSS, React, Bootstrap, Tailwind CSS | • Local Dev Stacks: XAMPP, WAMP |
| • Backend / Web: Node.js, Flask, PHP, REST APIs | • CMS: WordPress, Joomla |
| • Databases / Query: MySQL, SQL | • MS Office: Word, Excel, PowerPoint, Publisher |
| • Data & ML: scikit-learn, PyTorch, pandas, NumPy | • Virtual Machine: VirtualBox |

PROJECTS

Machine Learning Model for Predictive Analysis

- Cleaned and preprocessed five years of city crime data, standardizing categories, handling missing values, and encoding text attributes with pandas, NumPy, and scikit-learn.
- Developed and tuned K-means to reveal 4 distinct demographic crime profiles, then profiled clusters with feature-importance views and stakeholder-ready visualizations.
- Applied sequential pattern mining to surface high-support offense sequences and temporal associations that inform targeted prevention strategies.

Generative AI Chatbot

- Fine-tuned a BART model for context-aware responses and served inference via Flask, deploying a working prototype on a mock SLU portal built with HTML/CSS/JavaScript.
- Built an evaluation harness with BERTScore, BLEU, and ROUGE, and iterated via prompt and dataset augmentation to improve relevance and coverage.
- Benchmarked multiple model variants and selected BART for the best fluency/adequacy trade-off as verified by automated metrics.
- Automated answers for ~80% of common inquiries and cut average wait time by ~5 minutes during peak periods