Jermin B. Odcheo

Junior Developer

Perth, WA

jerminbodcheo@gmail.com | +61 401 593 561

github.com/Jermin-Odcheo | linkedin.com/in/jerminodcheo

Australian Citizen

EDUCATION

Saint Louis University   **August 2021 - July 2025**

Bachelor of Information and Technology

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

- 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

- 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 and upgraded PCs.

SKILLS

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