

# JERMIN B. ODCHEO

Junior Developer

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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

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| <ul style="list-style-type: none"><li>• Programming Languages: Java, Python, JavaScript, PHP</li><li>• Frontend: HTML5, CSS, React, Bootstrap, Tailwind CSS</li><li>• Backend / Web: Node.js, Flask, PHP, REST APIs</li><li>• Databases / Query: MySQL, SQL</li><li>• Data &amp; ML: scikit-learn, PyTorch, pandas, NumPy</li></ul> | <ul style="list-style-type: none"><li>• Dev Tools: Git, GitHub, VS Code, Jupyter Notebook</li><li>• Local Dev Stacks: XAMPP, WAMP</li><li>• CMS: WordPress, Joomla</li><li>• MS Office: Word, Excel, PowerPoint, Publisher</li><li>• Virtual Machine: VirtualBox</li></ul> |
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## 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