

SANTIAGO VARGAS

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EDUCATION

Curtin University, Perth, WA

Bachelor of Science Majoring in Software Development | *Expected Graduation, February 2026*

Relevant Coursework: OOP, Data Structures & Algorithms, Database Systems, iOS App Development, Network Management & Engineering, Unix & C Programming, Fundamentals of Programming, Cyber Security

TECHNICAL SKILLS

Data & Analytics: Databricks, Azure DevOps, schema design, medallion architecture, SQL, Data Pipelines, Power BI, dashboard analytics, Databricks custom MCP integration

Languages: Python, SQL, Java, C, Swift, JavaScript, node.js, HTML, CSS.

Tools & Practices: Git, Agile/Scrum, API integration, OCR, OpenCV, CI/CD pipelines, repository management

Other: Full-stack development, Agentic AI, MCP, database design, cross-team collaboration

EXPERIENCE

Data Integration & Analytics Vacation Student, Mineral Resources | December 2025–Present

- Supported production data assets by writing SQL transformations and assisting with schema redesign using dimensional modelling concepts to improve data usability and reliability. Reverse-engineered Power BI reports to identify optimal Gold-layer datasets, improving data usability and reducing redundancy for end users
- Collaborated with cross departmental and stakeholder teams to gather requirements, define data models, and deliver analytics solutions aligned with business processes
- Worked within Azure DevOps repositories to manage code changes and support deployment workflows in production environments.
- Developed lightweight web applications to automate document formatting and data processing tasks, including JSON parsing and text formatting
- Designed relationship diagrams and data schemas for real-world mining datasets, ensuring alignment with operational workflows
- Assisted in identifying and resolving data quality issues affecting downstream reporting.
- Contributed to improving data quality by aligning datasets with reporting requirements and reducing inconsistencies between source systems and analytics outputs.

Retail Team Leader, Campion Education, Perth, WA | November 2021–May 2024

- Managed point-of-sale and inventory systems daily, ensuring accuracy in transactions and improving operational efficiency
- Resolved customer conflicts in high-stress situations through active listening and problem-solving, consistently achieving positive outcomes
- Coordinated communication across teams of 7+ staff members, reducing misunderstandings and enhancing workflow collaboration
- Demonstrated leadership, adaptability, and reliability in fast-paced retail environment

DATA & ANALYTICS PROJECTS

AI-Powered Document Summarisation Pipeline

- Developing end-to-end AI powered data pipeline integrating Optical Character Recognition (OCR) and Large Language Models (LLMs) to transform scanned documents into rich summaries with automated statistical insights and key data extraction

SQL Database Management System

- Designed and implemented relational database with normalised schema, optimising data storage, retrieval, and query performance for scalable data management