Menura Manawadu

Software Engineer - AI/Data

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Dynamic Data Analyst / Developer with a solid foundation in data engineering and software development, complemented by a Bachelor of Computer Science. Proficient in programming languages such as Python and SQL, with expertise in AI, cloud and data tools like AWS, Google Cloud, Azure, Airflow, Snowflake, LangChain, OpenAI API, Pinecone, Power BI and Tableau. Committed to leveraging analytical skills to drive data-driven decisions and enhance user experiences through innovative solutions. Eager to apply a detail-oriented approach to harness data insights and contribute to impactful projects.

Career Experience

Business Local Directory, Melbourne   Feb 2025 — Present
Fullstack Developer

- Developed and maintained web applications using JavaScript(React), PHP(Laravel), and Python.
- Collaborated with design team to refine user interfaces and enhance user experience.
- Adopted an Agile mindset throughout the project life-cycle, enabling rapid iteration, frequent stakeholder reviews, and incremental deliveries.
- Analyzed and optimized application performance to improve load times and user engagement.
- Build and maintained data collection pipelines, dev-ops pipelines, RESTful APIs

Education

Bachelor of Computer Science
Swinburne University of Technology, Jul 2022 — Jul 2025

Technical Proficiencies

Programming	Python, R, C#, C, C++, JavaScript, React, Node, Angular, Vue, PHP, Rest API, Flutter, Kotlin, Dart, Figma, Streamlit
Cloud	AWS, Azure, Google Cloud (GCP), Docker, Jenkins, Kubernetes, Firebase, CI/CD DevOps pipelines, Terraform
Data	SQL, PostgreSQL, Python, R, Airflow, Snowflake, ETL/ELT pipelines, PostgreSQL, Tableau, Power Bi, Big Query, Looker, D3.js, Hadoop, Kafka, Spreadsheets, Data Modelling, dbt
Machine Learning / AI	Scikit-learn, TensorFlow, Keras, PyTorch, NumPy, Pandas, Matplotlib, Seaborn, MLflow, OpenAI/Gemini API, Huggingface, RAG, LangChain, Pinecone
Other	Jira, Confluence, Microsoft 365, GitHub

Certifications

Machine Learning Specialization - Stanford University x Deeplearning.AI

Gained hands-on expertise in supervised and unsupervised learning, regression, classification, and clustering techniques. Built and evaluated models using Python, scikit-learn, TensorFlow, and Keras. Applied gradient descent, decision trees, neural networks, and anomaly detection to solve real-world problems. Strengthened skills in model evaluation, feature engineering, and data-driven decision-making.

Data Analytics Professional Certificate - Google

Developed strong foundations in data cleaning, transformation, and visualization using SQL, R, spreadsheets, and Tableau. Gained practical experience with pivot tables, lookups, conditional formulas, reports and dashboard design.

Projects

Document AI Chatbot with RAG - Langchain, Pinecone

Created a chat platform where you can upload documents and retrieve info from your uploads using Retrieval-Augmented Generation. Used Langchain, Pinecone for Vector Database, Streamlit for UI, OpenAI API for Embeddings and Text Generation. https://github.com/thejanmv/RAG-document-chatbot

Real Estate Price Prediction

project explores various regression models including linear regression from scratch, scikit-learn implementations, polynomial regression, and regularized models (Ridge and Lasso). Link: https://github.com/thejanmv/real_estate_price_prediction

CI/CD DevOps Pipeline

Used Jenkins, Docker, Kubernetes, AWS EC2, CloudWatch, Github Actions. Link : https://github.com/thejanmv/CI-CD-Pipeline

Data Analytics Dashboards with Tableau, PowerBI, Looker

Cleaned, Transformed and analyzed HR, Marketing, Sales data and presented insights with reports and interactive dashboards with Power Bi, Excel, BigQuery, SQL, Tableau and Looker. Included conclusions and recommendations for marketing and other business decisions.

WEET – Phase 2 (Swinburne Industrial Project – Group)

Upgraded a location-based social networking app aimed for business travelers, from Swift to Flutter, redesigned UI, added new functions and additional premium version.**(Tools:** Flutter, Android Studio, Firebase, Figma, Jira)

Volunteering

Student Volunteer - Swinburne Student Union (SSU), Hawthorn VIC   Mar 2023 — Nov 2024

Contributed to event coordination and student engagement initiatives, supporting cultural programs, community activities, and well being campaigns. Promoted inclusivity, diversity, and collaboration within the student body. Assisted in organizing workshops, social events, and stress-relief activities, enhancing the overall student experience.