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# Paggie Liu

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Adelaide, SA

## Summary

**Software Engineer** with full-stack experience across frontend and backend development, cloud infrastructure, and database systems. Skilled in AWS, Python, data analysis, and data visualization, building scalable and data-driven applications. Proficient in using AI-assisted coding tools (e.g. Gemini CLI, Anthropic Claude Code) to accelerate development and improve code quality.

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## Skills

Python, Machine learning, AWS, Regression analysis, SQL, R, Tableau, Analysis skills, Statistical software, Scikit-learn, Git, Microsoft excel, Vue3, gemini cli

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## Experience

### Research Assistant (Software Engineer, Data Analyst)

University of South Australia • Adelaide, SA

04/2024 - Present

**Main Tools:** AWS Cloud, S3 Database, Sagemaker, Stepfunction, Python, Vue3,

- **ETL Processes:** Extract, transform, and load (ETL) raw data into structured formats or required data using AWS S3 for storage, ensuring data integrity and quality.
- **Cloud Integration:** Utilize AWS cloud services to manage and process data efficiently, optimizing resources for performance and cost.
- **Algorithm Development:** Develop Python algorithms to convert raw data into meaningful Type 2 and Type 3 indicators, applying statistical and machine learning techniques.
- **Python Coding:** Write, maintain, and document clean Python code, using Git for version control and collaboration.

### IT Support Intern

Deloitte • Taipei, Taipei

11/2023 - 03/2024

- **Issue Resolution:** Diagnose and resolve hardware, software, and network issues for end-users, ensuring minimal downtime and efficient problem-solving.
- **User Assistance:** Provide technical support and guidance to users, helping them navigate and effectively use IT resources and tools.
- **Asset Management:** Track and manage IT assets and inventory, ensuring proper allocation, usage, and lifecycle management of technology resources.

### Data Analyst Intern

Unitech • Taipei, Taipei

11/2022 - 03/2023

**Main Tools:** Python, R, Pandas, NumPy (Python); dplyr, tidyr (R), Matplotlib, Seaborn (Python); ggplot2 (R), R Markdown (R); Jupyter Notebooks (Python), SQL, Excel

- **Data Gathering and Cleaning:** Collect, clean, and preprocess data from various sources using Python and R to ensure accuracy and readiness for analysis.
- **Statistical Analysis:** Utilize Python and R for statistical analysis and modeling to identify trends, patterns, and actionable insights within the data.
- **Report Generation:** Create detailed reports summarizing analysis results using Python (e.g., Pandas) and R (e.g., R Markdown).
- **Data Visualization:** Develop visual representations of data using Python libraries (e.g., Matplotlib, Seaborn) and R (e.g., ggplot2) to effectively communicate findings to stakeholders.

Marketing Staff

SixteenO’s Art Bar • Adelaide, SA

01/2022 - 05/2022

- **Content Creation and Management:** Produce content for websites, social media, and email campaigns, including writing copy, designing graphics, and creating videos to engage the target audience.
  - **Advertising and Promotion:**Create and place ads in various media (print, digital, TV, radio) and organize promotional events to promote products and generate customer interest.
  - **Customer Relationship Management (CRM):**Use CRM software to track customer interactions and feedback, developing strategies to improve customer satisfaction and loyalty.
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Education

Master of Data Science

University of South Australia • Adelaide, SA

06/2024

Bachelor of Commerce in Marketing

The University of Adelaide • Adelaide, SA

06/2022

Bachelor of Medical Informatics

Chung Shan Medical and Dental College • Taichung, Taichung

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Link

Github: <https://paggie70424.github.io/paggie-blog/>