Rongcheng(Ryan) Li

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Github Linkedin Google Scholar Instagram

Education

Rice University **Houston, TX**
Master of Computer Science *Aug 2025 - Dec 2026*
- Selected Area of Specialization: Artificial Intelligence

Hong Kong Baptist University **Zhuhai, China**
Bachelor of Science(Honours) in Computer Science(First Class) *Sep 2021 - June 2025*
- Ranked in top 5% of 180 in Class 2025, Major GPA: 3.85/4
- Scholarship: Second Class Scholarship (Year 1 to 3), Guangdong Medical Valley Scholarship(20 places)

Internship Experience

Baidu Inc. **Beijing, China**
AI/ML Engineer *Dec 2024 - Mar 2025*
- Enhanced the Outline Generation module's performance through a multi-stage data pipeline that included model **Supervised fine-tuning** (LoRA), log data cleansing and annotation, resulting in an 80% win rate in GSB evaluations.
- Automated 40% of data annotation tasks by leveraging role-playing **prompt engineering** on the **Deepseek-v3**, also optimized 3 evaluation rules salvaging 20+% of data for valuable use.
- Accelerated the template update speed of Baidu Wenku's AI PPT Generator by leveraging LLM Fine-Tuning and **post processing strategies**, achieving 90% stability and enabling the deployment of 300+ templates.
- Evaluated the latest LLM models(Deepseek) and applied it to text to tabular data task, achieving 95% accuracy.

Apple Inc. **Beijing, China**
Data Scientist *Apr 2025 - Jun 2025*
- Leveraged **Word Embedding** and MiniBatch **K-Means** to analyze real-time chat data from a newly launched Apple TikTok live-stream, identifying top 10 categories that informed script optimizations and resulted in a 7% reduction in return rate.
- Boosted GenZ viewership by 21.29% and retention by 13.9% on TikTok outdoor live-streams by leveraging **A/B testing** to optimize content.
- Informed live content strategy by applying Difference in Difference(DID) analysis to Apple's continuous interconnection scenarios, which resulted in a 3% boost in click-through rates and an 8.9% increase in interaction rates.

Michelin(China) Investment Co., Ltd. **Shanghai, China**
Information Technology Intern *Jun 2024 - Sep 2024*
- Automated a reseller **sentiment analysis** system with 75% accuracy using pre-trained **Chinese Word Embedding** and **BiLSTM** on e-commerce comments, leading to a 3.2% increase in sales.
- Extracted 3,000+ tire specifications from websites like Tesla and BYD by leveraging a **Python Scrapy** web crawler, providing crucial market data to inform product strategy for a new electric vehicle tire series.
- Developed a data pipeline and visualization module for **SharePoint** internal software by integrating and processing unstructured data sources, which drove strategic SKU selection for a new tire launch in the Asia-Pacific region.

Publications

- Yuchen Guo, **Rongcheng Li** et al. ***DAE-Fuse: An Adaptive Discriminative Autoencoder for Multi-Modality Image Fusion.*** IEEE International Conference on Multimedia & Expo (ICME) 2025, **Oral Presentation**. Available at Arxiv, Project page
- Dong Huiwen, **Rongcheng Li** et al. ***Local Outlier Detection Based on K-distance Variation to Enhancing Imaging-aided Diagnosis.*** In 10th International Conference on Behavioural and Social Computing(BESC) 2023.IEEE Link

Open Source Projects

A Deep Reinforcement Learning Based Stock Automated Trading System Link **Zhuhai, China**
Machine Learning Course Project *Fall Semester 2023*
- Developed a Deep Deterministic Policy Gradient-based automated trading agent, leveraging advanced data preprocessing to improve annual returns by 10% in backtesting scenarios.

Facial Emotion Recognition System Link **Zhuhai, China**
Excellent Award Poster in undergraduate Poster Exhibition *Mar 2023 -Oct 2023*
- Developed a CNN-based facial emotion classifier with 80% accuracy on the FER-2013 dataset. Integrated the classifier into an interactive **PyQt5** system to analyze emotional data and visualize insights.

Other Projects: Undergraduate Latex Resume Template, AI Drug Design, GAN-based Image Transfer, LLM Homework Assistant.

Skills

Programming Language: Python, C/C++, SQL, Linux, Latex, React, Node.js, HTML, R, Markdown, SPSS.
Framework & **Packages**: PyTorch, Numpy, Pandas, Langchain, Scikit-learn, huggingface, AutoML, Flask, Tensorflow.
Tools: Github Copilot, Cursor, Docker, OpenAI API, Huggingface, Notion, Keynote, PPT, Dify, Overleaf.

Thank you for taking the time to review my resume!