Peijing Lin

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Objective: Software Developer Engineering

EDUCATION

University of Washington, Seattle | Master of Science in Information Management   Sep 2023-Jun 2025
- Specialization in Information Architecture & Program Management
- In-Progress Coursework: Introduction to Information Architecture, Information Structures Using XML, Metadata Design, Metadata for Interactive Media, Information Retrieval Systems, Advanced Relational Database Management Systems

South China University of Technology| Bachelor of Engineering in Food Science and Technology   Sep 2018-Jul 2023
- Relevant Coursework: Electrical Engineering and Electrotechnics, Technology and Application of Database

SKILL

- Language: Python, SQL, R, JavaScript, HTML, CSS
- Libraries: Pandas, Numpy, Matplotlib, sklearn, Seaborn

PROFESSIONAL EXPERIENCE

Bioinformatics and Medical informatics Research Assistant| *Python, R*   **Aug 2021 – Present**

Shenzhen People's Hospital   *Shenzhen, China*
- ***Co-first authored*** the article 'Genomic and non-genomic analysis reveals CaMKII is a modulator in neurodegenerative diseases', which was published on Frontier of Genetics.(DOI:10.3389/fgene.2022.959360)
- Using ***Python and R*** to Complete the screening of differential genes, enrichment analysis, and semantic similarity analysis by statistical methods such as t-test and Monte Carlo simulation.
- Complete the data visualization, including the volcano map,Venn diagram and heatmap.

Data Analysis Intern |*Python*   **Jul 2021 – Sep 2021**

Tencent   *Shenzhen, China*
- Using ***Python*** to complete the weekly report of school recruitment data, helping the department to improve the efficiency of this work by 95%.
- Organized the company's daily school recruitment system data and feedback to the personnel manager of each department with ***Python*** and Excel, thus improving the utilization rate of resumes and helping to revitalize human resources

PROJECTS

Ants vs. Bees | *Python*   **June 2023**
- Individually developed a tower defense game using a combination of functional and **object-oriented programming**, building upon a programming framework of ***Python*** provided by the course instructor of UCB CS61A.
- Expanded upon the framework by adding new classes, modifying existing classes, and implementing additional game features

Diagnostic model for sepsis | *Python, R*   **June 2023**
- Using ***Python*** to complete the feature screening using elastic network algorithms to achieve compression of the disease diagnostic model and improve the model classification accuracy.
- Using ***R*** to visualize the model improvement via ROC curves, accuracy, sensitivity and specificity.

ADDITIONAL EXPERIENCE

- Won the gold medal as the captain by designing and developing a sports-related software in the national finals of the 2nd National Student Sports Industry Innovation and Entrepreneurship Competition.