CHUN-YIN LI (ERIC)

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Profile Summary

As a Computer Science graduate from the University of Sydney, I am passionate about leveraging my deep understanding of technology to design and build foundational and critical systems. Proficient in Java and Python, I also have a keen interest in functional programming and am adaptable to new languages and frameworks. My intellectual curiosity, collaborative nature, and commitment to best practices equip me to address challenging problems and innovate within diverse software environments. Fluent in English, I am always eager to ask questions, learn, and contribute to both proprietary and open-source projects.

Education

The University of Sydney *2021 - Present*

Bachelor of Science, Major in Computer Science & Data Science

WAM: 75.3% (Distinction)

NOTED COURSES:

Object-Oriented Programming (86 %), Algorithm Design (76%)

Work Experience

Tachou Rubber, Taiwan *Oct 2022 - Jan 2023*

Full Stack Developer

- Initiated and led a 4-month project to collaborate with the factory and address product return issues by developing a Product Improvement System.
- Designed and built a comprehensive system to collect and analyze data on product return reasons and rework processes across 5 departments, presented via a user-friendly dashboard utilizing JavaScript, React.js, and Firebase.
- Accomplished a 50% drop in product rework, enhanced customer satisfaction by 20%, and realized 20K AUD in cost savings.
- Effectively communicated complex technical concepts to non-technical stakeholders using clear, easy-to-understand language.
- Performed thorough system testing, including unit testing, to efficiently identify and resolve potential issues, ensuring web application stability and security.

University Project, Stock Volatility Prediction with Optiver *Mar 2023 - Jun 2023*

Group Leader

- Led the design and optimization of a stock market volatility prediction platform using diverse machine learning algorithms, notably kNN, ARMA-GARCH, and HAV.
- Developed a Shiny App by R that allows traders to visualize model predictions, receive model recommendations based on selected stocks, and gain insights into model descriptions.
- Effectively predicted stock market volatility by using advanced techniques such as k-means clustering and model hyperparameter optimization.
- Achieved superior performance using the kNN model, demonstrating expertise in building precise forecasting tools.

Extra-Curricular & Volunteer Work

SYNCS Hackathon (Best UI/UX Award) *Aug 2023*

Participant

- Confronted with the frequent challenge of information loss when people snap pictures of important documents or record vital conversations on their devices
- Design and develop a user-friendly app that extracts, condenses, and categorizes information from photos and audio recordings, ensuring easy retrieval amidst the plethora of phone data.
- Led the integration of GPT-3.5 for summarization, used Google Cloud for text, applied Python for voice recognition, and built the app with SvelteKit, FastAPI, and Firebase.
- Achieved 4th place with a "Best UI/UX Award", received positive user feedback, and set a vision for expansive user-centric future updates.

Software Engineer, Blackbird *Feb 2023*

Virtual Internship

- Utilized GitHub version control to automate sequences with shell script files and perform coordinated Git and GitHub actions.
- Proposed a new feature for A/B testing and created clear proposals to guide designers and engineers in setting up experiments.
- Developed input validation and unit/integration tests for React applications using JavaScript.

Full Stack Web Development, Udemy *Oct 2022 - Dec 2022*

Online Course

- Completed a comprehensive online course in full stack web development, covering front-end and back-end technologies including HTML, CSS, JavaScript, Node.js, and MongoDB.
- Developed more than 5 web applications including a social media platform, an e-commerce site, and a blog platform as part of course projects.
- Proficient in developing responsive and user-friendly web applications.

Technical Skill

- **Programming Languages:** Python, Java, C, R
- **Web Technologies:** HTML/CSS, JavaScript, React
- **Machine Learning:** Experience with various models and tools
- **Version Control:** Git, GitHub, Bitbucket
- **Databases:** relational and non-relational databases (SQL, NoSQL)
- **Data & Analytics:** Data Structures, Algorithms, Pandas, Numpy, Excel

Interest

Web Development

- Interested in web development and staying current with the latest front-end and back-end technologies, such as React, Flask, and MongoDB.
- Passionate about continuous learning, participating in online courses and coding challenges to improve skills and knowledge.

Volleyball

- Placed fourth in a Division 1 volleyball tournament featuring over 12 teams
- Participation in team sports cultivates skills in collaboration, dedication, and resilience, encouraging continuous growth and development through training and competitive play.