

Thomas Liu

Full Stack Developer

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Residency Status: Australian Citizen

Summary

Dedicated Full Stack Developer with a proven track record of spearheading end-to-end technical solutions across diverse projects. Adept at overseeing every technical facet, from initial conceptualization to final deployment. Possesses comprehensive proficiency in both front-end and back-end development, ensuring seamless integration and optimal functionality. A committed advocate for continuous learning, staying abreast of emerging technologies to drive projects toward excellence.

Education

- THU SIGS
Artificial Intelligence (Human Head Pose Estimation – Computer Vision) 2019-2023
- University of New South Wales
Commerce/Computer Science 2015-2019
- Santa Clara University
GE3 exchange program 2016-2017

Experiences

- UNSW Tutor Sep 2024 – current
- Data Analyst - Eutility Pty Ltd 2023 – current
 - Designed and delivered energy usage reporting services, driving over 40% of company revenue. Produced these daily/monthly/annual reports using Pandas, Reportlab, and VBA in the ETL framework. Empowered businesses in data-driven decision-making for electricity use, tariff selection, and solar adoption.
 - Created Solar Dashboard in the form of web application that display real-time electricity usage and solar yield using Ruby on Rails and Power BI.
 - Maintenance and debugging of all the legacy services.
- Data Analyst Intern - Eutility Pty Ltd 2018-2019
- Research Assistant - UNSW INFS Research Team (DERN) 2018
- Business Analyst Intern - Pear Comms (start-up CRM) 2018

Skills

- Front-End: HTML CSS JS
- Back-End: C C++ Java JavaScript Python Ruby Solidity VBA APIs
- Database: MySQL SQLite
- DevOps: CI/CD AWS Agile ETL MVC
- System: Linux Unix Windows
- AI (Deep Learning): Pytorch

Projects

- Established LT-NET: SELF-ATTENTION MECHANISM IN HEAD POSE ESTIMATION, a novel neural network structure that infer Yaw/Roll/Pitch angle of the head in the perspective of camera by extracting high level features from facial landmarks map and a single-frame head picture using attention mechanism.
- A scalable decentralised online betting app with contract written in solidity, with other functionalities achieved by JavaScript,HTML, and CSS.