Aiden Yu

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EDUCATION

Boston University   Sep 2022 – May 2024
Master of Science in Computer Science   3.83/4.0

KEY SKILLS

Programming Languages: Java, Python, JavaScript, HTML5/CSS, PHP
Tools/Packages: MySQL, MongoDB, Node.js, Express.js, Shell Script, RESTful API, Git, Maven, Gradle, Airflow, Docker, PyTorch, Google Cloud Platform (Cloud Vision API, Google Sheet API), Agile

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant, CS767 Advanced Machine Learning and Neural Networks   Jan 2024 - Present
Boston University - Boston, MA

• Responsible for addressing questions during office hours and grading assignments (PyTorch, Keras, TensorFlow)
• Topics including but not limited to decision trees (GBDT, XGBoost, LightGBM, CatBoost), dimension reduction (PCA, tSNE, UMAP), and various neural network architectures such as CNN, RNN, and Transformer.

Software Engineer (Tech Team) - Full-time | Python, Airflow, Google Cloud Platform (GCP).   Apr 2022 - Aug 2022
Shopee (a multinational technology company which specializes in e-commerce) - Taiwan

• Automatic email sender **SAVE 85% time per month**
Through the program's GUI, the system automatically reads employees' KPIs. Supervisors can easily select the KPI emails to be sent.This eliminates the need for supervisors to manually copy KPIs and send them one by one via email

• Task assignment system **SAVE 40 minute per day**
Engineered an automated "Task Assignment System" streamlining the distribution of tasks to agents. Utilized Airflow for script deployment, integrating Google Sheet API to adhere to intricate manual task assignment logic, thus boosting operational efficiency and accuracy.

• Fake Receipt Detector
Pioneered the development of a "Fake Receipt Detector" application, leveraging the Cloud Vision API for text detection on receipts. Synthesized specialist insights into an algorithm, automating the identification of fraudulent receipts, thereby fortifying the company's risk management protocols.

Research Assistant - Full-time | Python   Jul 2021 - Dec 2021
Earthquake Physics and Seismotectonics Research Group - Taiwan

• Application of Borehole Seismograph on Earthquake Early Warning System (EEWS) | with two advisors
  • Developed a Python-based magnitude estimation empirical formula for borehole stations, **achieving a lower standard deviation** of 0.22 compared to the 2021 EEWS's 0.43.
  • Estimated earthquake magnitude on a C-based system, **accelerating estimation by about one second**.
  • Cleaned problematic data from 9,060 pieces of data over the previous four years with Python.

PROJECTS

Personal Website (link) - Front-End Focus | HTML5, CSS, JavaScript, and Vue.js
  • Developed a personal website featuring pages such as Home, About Me, Resume, Experiences, Contact, and Gallery. This project providing visitors with insights into my front-end skills and experiences while offering an interactive and visually appealing user interface.

Shopping Cart (link) - Back-End Focus | Node.js with Express and Mongoose, MongoDB, and HTML5
  • Developed a scalable shopping cart backend using Node.js. The backend features RESTful API endpoints for product management, customer orders, and order history. I implemented dynamic cart management and data conversion. This project demonstrates my expertise in web application development and database integration.