Ye Huang

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Education

Hong Kong University of Science and Technology   Sep 2022 - Jun 2023
- Master of Science - Big Data Technology   Hong Kong, China
- Relevant Courses: Data Analysis(A-), Data Vis(B+), Machine Learning (B+), Data Mining, Big Data Comp

University of Toronto   Sep 2018 - Jun 2022
- Bachelor of Science - Computer Science (GPA: 3.44/4.0)   Toronto, ON
- Relevant Courses: Data Structure(A-), Software Design(A-), Database(A-), Web Programming

Experience

Software Engineer Intern   Apr 2023 - Present

DocPro Limited   Hong Kon SAR
- Implemented and deployed both frontend and backend (including Early-Sign-Up and Subscription feature which require interaction with the **SQL** server) for the landing page of [DocLegal](#) project with **React.js**, **node.js (express)**, **SQL database**, using **GitHub Action** as CI/CD pipeline, all hosted on **Azure**.
- Optimized search engine results for [DocPro.com](#) by crawling the website using **python's Requests** library, identified document templates' titles with **regular expression**, added titles as H1 tags to the site for clairty.
- Designed and Implemented the SQL database used for DocLegal using **MSSQL**, updated backend logic and implemented code to coheres the change to the database, tested and deployed the changes to **Azure**.

Undergraduate Computer Science Teaching Assistant   Jan 2022 - Apr 2022

University of Toronto   Toronto, ON
- Acted as the **lead TA** in the assigned weekly tutorial for over 31 students, consisting of reviewing lecture materials, walking through tutorial exercises, and evaluating students' mandatory tutorial demos.
- Graded quizzes, midterms, final exam and final project, invigilated all exams, and held weekly and exam period office hours, assisted professors in lectures by presenting demos and answering questions.

Project

Duplicate-Post Detection Bot   Sep 2021 - June 2022
- Participated as a research student in the research team led by [UofT CSEd](#) to develop the AI models.
- Collected and split the 3200 students' posts as training and testing data from an active CS1 Piazza through Python **Piazza API**, stored in **MongoDB**, cleaned the data using **Pandas**, **regex, unicode** python code.
- Built and trained the model of the post-detection bot using **SentenceTransformers** library attached with fine-tuned **Neural Network** built using **Pytorch**, achieving an accuracy of 86% from the previous 56%.

Covid-19 Consultant Chatroom   June 2021 - Sep 2021
- Created an online asynchronous chatting website using **React.js**, **React-Bootstrap**, and **Node.js**, and utilized **MongoDB** to store user data and chat messages for the chatroom and authentication system..

Animation Enrichment Bundle   Aug 2021 - Sep 2021
- Designed and implemented an animation package that is able to render interactive text with multiple different animation effects on canvas objects on a browser using **Javascript**.
- Created landing page, documentation, and example pages for the bundle using **HTML** and **CSS**, and deployed the landing page via **Heroku** (Unavailable as of Feb.2023).

Skills

- **Programming Languages**: Python, Javascript, HTML, CSS, PostgreSQL, YAML, Java
- **Frameworks**: React.js, Node.js, MongoDB, Azure, Git, Spark, PyTorch, Pandas
- **Software**: Linux, Microsoft Suite, GitHub, MongoDB, Github, Google Colab, Jupyter Notebook
- **Languages**: Mandarin(Native), English(Advanced), Cantonese (Advanced)