Sydney Chang

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Work Experience

Programmer Analyst II
University of Southern California - Office of Research
08/2019 – Present LOS ANGELES, CALIFORNIA

- Automate the research review process for regulatory committees through dynamic web-based, user-facing software applications using HTML, CSS, and JavaScript.
- Prepare reports by mining, cleaning, and visualizing key data and metrics for quality improvement.
- Spearhead an extensive effort to integrate legacy systems and modules via RESTful webservices.
- Design, implement, test, deploy, and maintain solutions for research compliance bodies
- Work to enhance UX/UI by interfacing directly with stakeholders + clients to build customer-centric products.
- Led and trained team of 3 for implementation of development tickets and helpdesk support.

Medical Annotator, onsite with Google
Vituity (part-time)
06/2019 – 12/2019 Remote

- Assist with development of machine learning algorithms and training of ML models to extract clinically relevant information from transcribed encounters.
- Highlight key entities + associated attributes across different ontologies, group/frame synonymous concepts.
- Utilize quality control platform to improve consistency, speed, and scalability.

Education

Computer Science
University of Southern California – Master's of Science
2022 - 2026

Neuroscience | Molecular, Cell, and Developmental Biology
University of California, Los Angeles – Bachelor's of Science
2015 – 2019

Relevant Courses/Skills

- Languages/Skills: HTML, CSS, JavaScript, Python, Java, C++, Git, SQL, MongoDB, AWS, Figma
- Courses: Analysis of Algorithms, Web Technologies (Current), Database Systems, Data Science at Scale, Machine Learning for Data Science (Planned)

Projects

- **Hokkien Language Learning App**: utilize TypeScript, React, TailwindCSS, AWS DynamoDB/Lambda/S3 to create a spaced repetition tool to teach and test Hokkien knowledge.
- **Weather App**: utilize Flask + Python on AWS EB to serve the app, composed of HTML/CSS/JS, that dynamically displays forecasts based on inputted location (using JSON from APIs) in card, table, and chart forms.