

Yanyu Chen

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Professional Experience:

Athena Accessible Technology

San Mateo, CA (Remote)

Software Engineer

07/2023 - Present

- Took ownership of company's developer site; implemented React Hooks and Components to refactor hard-coded HTML content and achieve responsive webpages, enhancing user experience and increasing site engagement by 50%
- Created and maintained technical documentation and instructions for Athena's SDK product APIs; prototyped 2 demo apps to assess and showcase SDK reliability and usability, significantly aiding in developer onboarding
- Initiated integration tests for demo iOS apps on Xcode to identify and resolve UX issues, improving product usability

Machine Learning Engineer Intern

06/2022 - 08/2022

- Developed an internal library to store functions used in daily productions with detailed documentation, achieving a 75% reduction in processing time for each file set through the simplification and aggregation of functions and processes
- Prototyped Python data pipelines to overview time series eye tracking data to help evaluate model effectiveness
- Improved the accuracy of the eye gaze reading classification model by 20% using newly selected features and models

CITIC Securities Company

Beijing, China

Research Intern

05/2020 - 03/2021

- Built a Python web scraper to gather oil and chemicals data from different websites; transformed the information into useful and accessible data for the team to effectively conduct research on different chemical manufacturers
- Conducted feature engineering on datasets from different sources to more accurately predict trends of crude oil price

Education:

Carnegie Mellon University

Pittsburgh, PA

M.S. in Data Analytics for Public Policy & Management

09/2021 - 05/2023

Peking University

Beijing, China

B.S. in Economics

09/2017 - 06/2021

Technical Skills:

Programming Languages: Python, TypeScript/JavaScript, Java, HTML&CSS, SQL, PL/SQL, Swift, R, Stata

Frameworks & Libraries: React, Django, AJAX, jQuery, Plotly, JUnit, PyTorch, PySpark, Scikit-learn, Pandas, SciPy

Tools & Techniques: Git, Maven, NPM, MySQL, PostgreSQL, Node, Linux, AWS, Apache, GitHub CI/CD, MS Office Suite

Selected Projects:

[Online Restaurant Reservation and Order System](#)

01/2023 - 05/2023

- Constructed a full-stack restaurant online reservation and order system based on Django; deployed the system on AWS EC2 and the system is available for use by real business with customizations like adding dishes and staff
- Designed data models to store information and relationships among entities such as dishes and reservations on MySQL
- Utilized React.js to build a responsive shopping cart component that updates in real time when any changes happen

Capstone Project with [National Geospatial-Intelligence Agency](#)

01/2023 - 05/2023

- Strengthened the effectiveness of the National Geospatial-Intelligence Agency's approach to combating illegal fishing activities by creating an interactive dashboard tool to identify 25 high-priority vessels with Plotly Dash
- Integrated network analysis to recognize vessels with high risk conducting illegal fishing among 35,000+ data points

[WebApp Spatial-Temporal Extraction and Analytics Framework](#)

09/2022 - 12/2022

- Collaborated with two teammates to implement a web-based data analytics framework with Java and Typescript to extract and display time and location data from various sources, kept its extensibility for easily adding new plugins
- Designed APIs and unit tests for sample plugins, utilizing design patterns to sketch domain and object diagrams
- Built a dynamic webpage UI using React for selecting plugins and rendering data visualizations with Plotly.js