

Yanyu Chen

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EXPERIENCE

Software Engineer

06/2023 – Present

Athena Accessible Technology

San Mateo, CA (Remote)

- Took full-stack ownership of the company's developer site based on Node.js and React.js; implemented React Hooks and Components to achieve responsive webpages, enhancing user experience and increasing site engagement by 30%
- Created and maintained technical documentation and instructions for Athena's SDK product; 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

Software Engineer Intern

06/2022 – 08/2022

Athena Accessible Technology

San Mateo, CA (Remote)

- Developed an internal Python library to store functions used in daily productions with detailed documentation, achieving a 75% reduction in processing time for each file set by the simplification and aggregation of functions and processes
- Built 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

Research Intern

05/2020 – 03/2021

CITIC Securities Company y

Beijing, China

- Prototyped a Python web scraper to gather crude oil 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

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

Pittsburgh, PA

09/2021 – 05/2023

Peking University

B.S. in Economics

Beijing, China

09/2017 – 06/2021

TECHNICAL SKILLS

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

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

DevOps: Git, Maven, npm, Node.js, Webpack, MySQL, PostgreSQL, Linux, AWS, GCP, Docker, GitHub CI/CD

PROJECTS

Online Restaurant Reservation and Order System

01/2023 – 05/2023

- Developed a Django-based reservation & order webapp which enables customer interaction and easy management of administration; utilized React.js to organize the reusable components bundled by Webpack for services interaction
- Implemented services including Google OAuth, reservation and ordering, post with comments in jQuery with Ajax
- Configured AWS EC2 instance to deploy the app on Apache server and MySQL database to store platform data

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 web-based 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

- Implemented a web-based data analytics framework with Java and Typescript to extract and display time and location data from various sources; utilized strategy pattern to keep its extensibility for easily adding new plugins from others
- Designed APIs and unit tests for sample plugins, created UML diagrams to illustrate domain and object models
- Built a dynamic webpage UI using React for selecting plugins and rendering data visualizations with Plotly.js