Xinyu Blaire Pang

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EDUCATION

University of Michigan | B.S. Computer Science & Data Science (Double Major) | GPA: 3.7   *Sep.2020 - Apr.2024*

SKILLS

- **Programming:** Python, C++, Go, TypeScript, JavaScript, Ruby, Java, SQL, HTML, CSS, Sass, C
- **Frameworks/Cloud/Libraries:** React.js, Next.js, Node.js, Express.js, Angular, REST, gRPC, jQuery, Flask, AWS
- **Databases:** MongoDB, MySQL, Firebase, Redis, DynamoDB, Snowflake
- **Software:** VS Code, Visual Studio, Postman, IntelliJ, MATLAB, jGRASP, PopSQL, WordPress

WORK EXPERIENCE

Software Engineer Intern | Coinbase   *May.2023 - present*

- Developing a **full-stack** solution to increase the visibility of blockchain transactions for Prime Operations by integrating multiple assets management systems, such as Nova, AMS, HWO, and blockchain information into the Prime Admin UI.
- Collaborating with the product team to collect the user requirements, define functionality, create workflows, design the prototype, and build Prime Admin **UI** to enhance user experience using **Figma**, **TypeScript**, **React.js**, and **Redux**.
- Establishing **API endpoint** to get transaction confirmation information in collaboration with AMS, Nova, and HWO team PoCs using **gRPC**, programming in **Ruby** and **Go**, storing data in **MongoDB** and **Snowflake**, and monitoring with **Datadog**.
- Calculating average finalization time and the number of confirmations required for various cryptocurrency networks, providing essential insights for the internal team, and increasing transparency about transaction progression in blockchain.
- Implemented **unit** and **integration** tests to ensure the robustness and reliability of new functionalities.

Software Engineer Intern | InstaHub   *Jan.2023 - May.2023*

- Built **IoT** dashboard in **React**, **Node**, and **Python**, visualizing real-time analytics with charts and heatmaps based on the data collected from multi-sensor Datalogger and enabling users to observe room activities and manage devices online.
- Devised and refactored the **SQL** database leveraging **MySQL Stored Procedure** to calculate and store the averages of five sensor data points retrieved from the multi-sensor datalogger and reduced the frontend loading time by **50%**.
- Established and integrated **AWS DynamoDB** service for real-time data processing via **RESTful APIs**. Oversaw APIs construction and monitored the communication health with serverless frameworks using **Python** and **AWS Lambda.**
- Oversaw the team's progress by utilizing **Agile** techniques such as **backlog, sprints, Scrum, and Kanban** to track the state of tasks. Set up **CI/CD** pipeline to deploy the application leveraging AWS **Amplify** and **Lambda.**

Web Development Intern | CAEN Michigan Engineering Information Technology   *Jun.2022 - Sep.2022*

- Designed components in the frontend using **React.js, Next.js, HTML,** and **CSS** to assemble a functional and dynamic UI and make the website infinitely scalable, easier to maintain, and rendered consistently in cross-browser/device environments.
- Interacted with multiple **API** endpoints to retrieve and query user information from **MySQL** database and display the user information to the UI. Worked with clients and agencies to fine-tune styles according to the requirements.

Software Engineer Intern | Arriver   *Sep.2021 - Dec.2021*

- Accomplished a **React** application using **Kepler.gl** to visualize and analyze vehicles' routes and annotations.
- Devised data patterns using **Geo-Point** and **Geo-Shape** (lineString, polygon, envelope) to store **Geospatial** data coming from vehicles in **GeoJSON** format to the document-based **Elasticsearch database** using both lat/long and **GeoHash**.

PROJECT EXPERIENCE

Please check out here for all of my projects: https://blairepang.com/#portfolio

EXTRACURRICULAR EXPERIENCE

Co-Founder | AccessAssist   *Feb.2023 - present*

Website: https://access-assist.netlify.app/   Github: https://github.com/XinyuP/Access_Assist

- Collaborated with a team of three to build a **full-stack** web application to display local social service providers within a 5-mile radius of the user's input address, connecting people in need with available beneficial resources efficiently.
- Designed an interactive frontend UI using **JavaScript**, **React**, **HTML**, and **CSS**; built backend using **Python** and **Flask**.
- Integrated **Google Map API** to render user-friendly maps with markers for service locations and program information.

Quantitative Developer | Quantitative Consulting and Finance Group   *Apr.2023 - present*

- **Led** a group of four to develop a **Stock** Social Media **Sentiment Analysis** Generator using **React, JS**, **Python**, and **Flask.**

Blockchain Developer | Michigan Blockchain   *Jan.2023 - present*

- Developed **DApps** and **NFT** blockchain projects with a group of 5 people using **Ethereum Solidity Smart Contract**.