Yufan Lu

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Education

Carnegie Mellon University   **Pittsburgh, Pennsylvania**
Master of Information Systems Management, Heinz College   **05/2023**
- Web Application Development, Distributed Systems for Information Systems Management, Advanced Database Management, Introduction to Deep Learning, NoSQL Database, Data Structure and Algorithms, Data Focused Python.

University of International Business and Economics   **Beijing, China**
Finance, Bachelor of Economics, School of Banking and Finance   **07/2021**
- National Scholarship (1%); First-class Scholarship (5%); CFA Student Scholarship (Top 3 in the class).

Skills & Certificates

Programming Language: JAVA, JavaFX, Python, SQL, PL/SQL, Typescript, JavaScript, HTML, CSS, R
Framework & Database: React, React Native, Django, Oracle 11g Database, SQLite, Redis, MongoDB, NoSQL
Others: Git, OAuth, AJAX, MVC, Unit & Structural Testing, Linux, Postman, Jenkins, AWS, Azure, Heroku, Docker, Android
Certificates: Association of Chartered Certified Accountants (11 subjects passed out of 13 subjects)

Work Experiences

Wisecar PTY LTD - Node.ts, React Native, Git, Postman, Jenkins   **Adelaide, Australia**
Software Developer Intern, iOS Mobile Team   **05/2022-08/2022**
- Followed **CI/CD** pipeline to build a reimbursement mobile application, with **React Native** and **Typescript**, test and deploy the iOS app and publish it on **TestFlight**.
- Tested **RESTful** 53API endpoints with Golang using **Postman** & **Jenkins**, and utilizing them in our app using **Axios** package, gave feedback to the backend team, made change accordingly to adhere to the business logic.
- Solely responsible for devising more than 10 responsive screens according to the **Figma** design, enabled users to manage their claims data, cooperate closely with the Android team, ensured the app has consistency on Android.

China Minsheng Bank Headquarters – PL/SQL, SAS   **Beijing, China**
Data Analyst Intern, Dept. of Personal Finance, Risk Measurement Team   **07/2020-09/2020**
- Implemented **PL/SQL** procedures and functions to collect personal loan data, including loan applications and approvals, analyzed their changing trend utilizing yoy, and concluded that 2-tier cities should be focused on marketing.
- Enhanced the internal anti-fraud model by onboarding external anti-fraud data from Baihang Credit and Tencent.
- Used **SAS** to process personal loan data, output credit score through personal information and historical default.

Project Experiences

Loading Optimization Project – Pittsburgh, USA   **01/2023-05/2023**
- Worked with world-leading wood product client Koppers, developed a web-application loading optimization calculator with **JavaScript** and **Python,** client offered $1000 to buy out the application.
- Utilized **Gekko** for optimization model development, generating the optimized loading arrangement for railcars.
- Employed **JavaScript** and **Django** for application development, creating interactive UI for Koppers' employees to use.

Java Santorini Game – Pittsburgh, USA   **02/2023-04/2023**
- Developed a web-based Santorini game application using **NanoHttp, Java** and **Typescript** for an interactive experience.
- Leveraged **NanoHttp** as a lightweight, high-performance HTTP server to communicate frontend and backend with **Json**
- Utilized **Java** for backend development, implementing game logic, and ensuring code quality with **JUnit** testing.
- Employed **TypeScript** for frontend development, creating responsive and intuitive user interfaces for seamless gameplay.

Hotel Booking Project - Pittsburgh, USA   **10/2022-12/2022**
- Devised an interactive web application for a hotel to check availability, place order and make payment in **Django**, **React**.
- Built under the framework of separation of front and backends, using **CSRF token** to handle cross origin issue, handling requests with **Django REST** framework and storing data in **SQLite**.
- Integrate **Google Sign-in** as our **OAuth** method, and **Stripe** as our payment API, enable user to login and pay**.**
- Used hook functions in **React** to achieve **Ajax** to make room list update with latest status without refreshing and deployed the application onto **AWS EC2** cloud platform and **Microsoft Azure**.

Java Mobile Application Project - Pittsburgh, USA   **10/2022-11/2022**
- Built an **Android** mobile application for searching real-time foreign currency exchange rate.
- Fetched data from third-party API, process and stored in document style **NoSQL** database in **MongoDB Atlas**.
- Developed a server to handle **RESTful** API calls and **CRUD** operations from mobile application.
- Deployed the application to **Docker** container and uploading to cloud with **Heroku**.

Django Social Media Project - Pittsburgh, USA   **09/2022-10/2022**
- Devised an interactive web application for users to create profile, posts and comments in **Django**, **JavaScript**.
- Implemented responsive design on front-end web UIs using **HTML**, **CSS**, used **JavaScript** to realize **AJAX**,
- Realized functions of post creation, global/follower stream viewing, profile editing, following/unfollowing, handling these requests with **Django REST** framework and storing the data in **SQLite**.
- Used **JavaScript** and **Ajax** to make the global and follower streams update with new posts and comments, without refreshing **HTML** page, every 5 seconds; deployed the application onto **AWS EC2** cloud platform.