Jiayue (Nicole) Yang

W: http://www.andrew.cmu.edu/user/jiayueya/
E: jiayueya@andrew.cmu.edu   P: 0468 818 426

Education

Carnegie Mellon University   **Adelaide, Australia 8/ 2018 – 5/ 2020**
Master of Science in Information Technology – Business Intelligence and Data Analytics (GPA: 3.6/4.3)
Relevant courses: Web Application Development, Object Oriented Programming in Java, Database Management,
Linux & Open Source, Internet of Things, Data Focused Python, Data Structure

Shanghai Lixin University of Accounting and Finance   **Shanghai, China 9/ 2014 – 1/ 2018**
Bachelor of Management in Information Management and System (GPA: 3.7/4.0)
Merit Base First Prize Scholarships for Outstanding Student and Social Practice

Skills

- Programming language: Java, Python, SQL, HTML5, CSS, JavaScript, C#
- Industry Knowledge: Web application, Database management, Project management, Data analytics, Machine learning

Work Experience

Spiral Data Group – *Full-Stack Developer Intern*   **Adelaide, Australia 1/ 2020 – Today**
- Build a real-time water analytic application alpha with **Scrum** and designed the dashboard with **Kibana**
- Predict water flow 204 seconds ahead with holts_winter model, AWS DeepAr（91% accuracy）and Sagemaker
- Use **AWS Lambda** and manipulate automation of model training, real data streaming with **NodeRed**, **Elastic Search**

SeaLink – *Student Consultant*   **Adelaide, Australia 5/ 2019 – 8/ 2019**
- Built a recommendation engine increasing sales performance based on sales data and industry insights
- Employed **Tableau** for visualization, **Python** for data processing and modeling
- Explored association and implemented clustering K-means algorithm and generated recommendations

Medtronic – *Global IT Intern in Healthcare*   **Shanghai, China 3/ 2017 – 1/ 2018**
- Administered daily operations of a development of *mTaxi* project for nine months from pilot to launched, which was awarded the "FY 2018 Best Project" in Medtronic's Annual Meeting
- Executed monthly data analysis and identified user behavior through pivot-table and visualization using **Python**
- Helped defining requirements of projects and published project documents for Medtronic's mobile applications
- Implemented **software testing** (regression tests, acceptance tests) and assisted in three projects' official deployments

Project Experience

Synphony – Synchronized Music Sharing Studio Website   **11/2019**
- Developed a web application using **Scrum** methodology as a member of a four-people group
- Utilized **JavaScript** adding music with **Ajax** and looping the music
- Implemented **websockets** recognizing the real-time comments and playing music in synchronization
- Managed the interchange of data between Netease API with **Node.js** and deployed the endpoints to **heroku**

Menuserve – Restaurant Management Website – Full Stack Project   **9/2019 – 11/2019**
- Designed the model and the data schema for an online restaurant management
- Created well-designed user interfaces with standard **HTML**, **CSS**, and JavaScript, **JQuery** practices
- Incorporated data from **Postgres** Database and back-end services using Python **Django** framework
- Wrote font-end tests using **Selenium** and back-end tests in Django
- Used **git** for version control and deployed the web application linking **Azure** with **CI/CD** tool

CUI for Shopping Experience – Chatbot Project   **11/ 2019**
- Built conversational user interface for shopping and linked it with Slack
- Integrated with Google Assistant Actions and connected Google Home Devices
- Used Google **DialogFlow** and set up database using **MongoDB**
- Created endpoints via **Node.js** using **RESTful** principles and achieved data CRUD operations

Cruise Management System – JavaFX Application   **10/ 2019**
- Developed an information management system for a cruise company in **Java**
- Designed user interface with **JavaFX** and visualized the sales performance in different charts
- Used **Deby** database, achieving create, read, update, and delete data operations

Leadership

Shanghai Volunteers Association   **Shanghai, China 10/ 2014 – 6/ 2018**
- Volunteered as an interpreter for foreign athletes resolving accommodation issues in International World Cup Archery
- Coached students from elementary school to undergraduates, which increased their homework accuracy by 30%