

Chuhan XU

SOFTWARE ENGINEER

4919 Yew St, PA 15224

☎ (+1) 412-327-9196 | ✉ xuchuhan777@gmail.com | 🌐 ChuhanXU | 📧 chuhan-xu-b68415191

EDUCATION

University of Pittsburgh

M.S. IN INFORMATION SCIENCE, GPA 3.72

Pittsburgh, PA, USA

Aug. 2019 - Exp. May. 2021

Zhongnan University of Economics and Law (Double Degree)

B.S. IN INFORMATION AND COMPUTING SCIENCE, GPA 3.52

Wuhan, China

Sep. 2017 - Jun. 2019

Hubei University of Economics

B.S. IN INFORMATION SYSTEM MANAGEMENT, GPA 3.57

Wuhan, China

Sep. 2015 - Jun. 2019

SKILLS

Rank by Proficiency:

Languages: JAVA, Python, C#, JavaScript, HTML, CSS, Scala, LaTeX

Environment and Framework: Node.js, Flask, Django, Vue.js, TensorFlow, Hadoop, Spark, .NET

Systems and Tools: Linux, Windows, MySQL, MongoDB, PostgreSQL, Git, Docker, AWS

PROJECTS

King Glory Game Information Management System

Pittsburgh

INDEPENDENT PROJECT

May. 2020 - Jul. 2020

- Designed and built a full-stack information management project with separated front and back ends using **Vue.js**, including Web, Server, and Admin System
- Enhanced security of the system by implementing **HTTPS**, using **JSON Web Token** for users and administrators' login verification
- Built 30+ RESTful APIs on the Server side by **Node.js** and **Express**; storing different categories of image and text data in **Mongo DB**
- Optimized extensibility and versatility of the code by Implementing a general CRUD interface; Reduced the amount of code by 1/4 with **Dynamic Parameters**
- Improved user experience by achieving custom image uploading and rich text online editing using **Multer** and **Quill** middleware

Mario Game, First Level

Pittsburgh

CORE MEMBER

Mar. 2020 - May. 2020

- Designed and completed a Junior-Level 2D interactive program using **MonoGame**, **C#** and **.NET** framework
- Understood and experienced the whole process of **Agile software development**, improved code readability and extensibility by implementing **Factory Design Patterns** and **State Design Patterns**
- Developed **Collision Handling** for all types of collision, causing state transition or position changes when necessary
- Compressed game assets size by using **Sprite** instead of normal images to achieve all kinds of animation effects

Assessment Model of Community Opening on Road Traffic

Wuhan

GROUP LEADER

Oct. 2018 - Dec. 2018

- Built **Multi-channel queuing theory** model of vehicle traffic according to three typical community in different time periods
- Computed communities opening score by simulating road curves, traffic lights, residential housing density using traffic flow simulation software **PTV Vissim**
- Established road network traffic evaluation index system including specified gradations
- Rewarded with National Second Prize in **China Undergraduate Mathematical Contest** in Modeling

EXPERIENCE

Information Technology Department, Squirrel AI Adaptation Education

Xiangyang, China

INFORMATION TECHNOLOGY INTERN

Jun. 2019 - Aug. 2019

- Achieved the layout and color of Grade page using **HTML** and **CSS** according to the UI design requirement; enhance development efficiency by using **SASS** to generate Cascading Style Sheet
- Cooperated with backend software engineer seamlessly to achieve pages interaction and rendering with **Vue-router**; increased storage of users' session data using **localStorage** instead of cookie
- Updated and created related course resources and schedule in main page according to requirements of teachers and students; enhanced user experience by monitoring and reporting some problems to mentor in time

Big Data Analysis Laboratory, Hubei University of Economics

Wuhan, China

RESEARCH ASSISTANT

Sep. 2017 - May. 2018

- Research on Female Entrepreneurial Mode at the Internet Era--Based on the Web Celebrity
- Designed **questionnaire** for web celebrities and distributed it online and offline
- Developed a **crawler** to acquire raw data such as followers' number and daily comments from different marketing platforms
- Conducted data analysis to draw survey conclusions about major influencing factors for Successful Female Online Celebrities
- Published research on the Journal of Hubei University of Economics (Humanities and Social Science)