

HONGTAO (FABER) LIU

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EDUCATION

University of California, Irvine
B.S in Computer Science

June 2017

GPA: 3.49

Specialization: Information

Coursework Highlights:

Algorithm Design and Analysis, Artificial Intelligence, Computer Vision,
Machine Learning, Data Management, Socket Programming, Embedded Systems

SKILLS

- 5 years with Java
- 3 years with C++ and Python
- **Database:** MySQL, MongoDB
- **Programming:** C, HTML, JavaScript, OOA/OOD/OOP, Assembly
- **Framework:** Spring, Vue.js
- **Applications:** Amazon AWS, Selenium, etc.
- **Tools:** Git, IntelliJ, Eclipse, PyCharm, Docker
- **Languages:** Fluent in Mandarin and English
- **Interests:** Photography and Filming

PROJECTS

Reward-Finder | AI in Minecraft

June 2017

Programmer, Designer

<https://moe202.github.io/Reward-Finder/final.html>

- Reward-Finder is a project that bases on Microsoft's Project Malmö
- Designed mazes with hazards in XML and taught Malmö agent to explore mazes
- Analyzed agent's performance by using numpy and matplotlib
- Implemented and optimized Q-learning algorithm to maximize reward gains
- Designed and wrote project website using HTML, CSS and Markdown

Fabflix

March 2017

Programmer

- Managed teams of 3 programmers to design and develop a web-based application that allows users to browse and search for movies and purchase movies
- Implemented SQL logic to allow Auto Complete Search and Blurry Search
- Implemented Connection Pooling, Master and Slave Instances to optimize Fabflix's performance

SolarLab – A Cloud-Based PV System Intelligent Design Software

Programmer, Member of the Founding Team

May 2018 - Present

- Designed and developed a PV System Design Web Application using Spring Boot, Vue.js and CesiumJS
- Developed algorithms to compute PV panel layout based on environmental parameters
- Optimized MySQL database to enhance of the application's performance
- Developed test cases and automated test scripts to ensure the quality of the application

EXPERIENCE

Illuminate Education

Irvine, CA

QA Developer – Intern

September 2017 – May 2018

- Designed test cases and developed automated test scripts based on specifications
- Implemented test cases using manual testing techniques
- Performed functional, smoke, integration and regression testing on applications
- Created a frontend automation framework based on Selenium/Robot Framework
- Utilized JMeter and developed JMeter scripts to functional test Restful Microservices
- Developed automated test scripts in Java to enhance the efficiency of quality assurance process