

Shuze Liu

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EDUCATION

Yale University

May 2020

M.S. , Computer Science Cumulative GPA: ongoing

Rensselaer Polytechnic Institute

May 2019

B.S. , Computer Science Cumulative GPA: **4.0/4.0** (Summa Cum Laude)

INTERNSHIP EXPERIENCE

Alibaba Group

June 2019 -- Aug. 2019

Algorithm Engineer Intern

Hangzhou, China

- Developed a program in **Python** to test actual performance of twelve convolutional neural networks on the server.
- Implemented ShuffleNet v2 by MxNet in **Python**. Trained the convolutional neural network on clothing pictures.
- Achieved 91.8% accuracy on clothing classification problem and decreased training time by tuning the hyperparameters.
- Developed an **API** for this CNN to allow the City Brain project to feed any size of pictures and get their labels.

PUBLICATIONS

- **Shuze Liu**, Farhad Mohsin, Oshani Seneviratne, Lirong Xia. Strengthening Smart Contracts to Handle Unexpected Situations. **Published on IEEE International Conference on Decentralized Applications and Infrastructures**

SELECTED PROJECTS

Strengthening Blockchain Code to Handle Unexpected Situations

May 2018 -- May 2019

Undergraduate Researcher

Troy, New York

- Developed a course selection system on the blockchain platform, Hyperledger Composer in **Javascript**.
- Designed a voting mechanism with an “action list” to handle unexpected situations in blockchain code.
- Augmented this mechanism with generic principles. Created generic **APIs** for incoming blockchain code.
- Implemented a pre-processor in **C++** to parse incoming blockchain code and automatically decorate the chaincode with the above design.

GoSki iOS app

Jan. 2019 -- May 2019

- Developed an iOS app to gather information of ski mountains and provide tutorials for skiers.
- Managed team to follow **Agile software development principles**. Wrote corresponding documentation for each sprint or release.
- Implemented an account system and stored users' data in **Firebase**.
- Implemented a feature to locate friends using **GoogleMap API**.

SKILLS

- Programming Languages: Proficient in **Python, C, C++, Java, Javascript**. Familiar with Prolog, Scheme.
- Frameworks: TensorFlow, MxNet, Pytorch.

TEACHING & COURSES

- Undergraduate **Teaching Assistant**: Intro. to Algorithms (Spring 2019), Intro. to Logic (Fall 2018)
- **Programming Intensive Courses**: Software Engineering, Software Development & Documentation, Operating Systems, Principle of Software, Programming Languages, Principle of Compilers, Intro. to Database Systems.
- **AI & Theory Courses**: Deep Learning, Intro. to Artificial Intelligence, Graph Theory, Machine Learning in Blockchain, Computability and Logic, Advanced Computer Algorithms,