Shuyu Yuan

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Education Background

Graduate: Master of Engineering (Information Technology), University of Melbourne July 2018 – Nov 2020 (Expected)

Undergraduate: Computer Science, Tongji University Sep 2014 – Jun 2018

Internship Experience

Assistant Engineer, Intel Corporation (China) Mar-Jun 2018

- Coordinated an Idea to Reality team project, which accomplishes a great display program.
- Cooperated the team to get the data from the backend and displayed them in the frontend vividly based on the language of HTML, JavaScript, and python.
- Learned a lot about communication skills, teamwork as well as improved the ability of web project development.

Assistant Engineer, Baosight Software Co, Ltd. Shanghai Jun 2017

- Responsible for the basic knowledge of the neural network.
- Built a CNN to deal with the MINST dataset in the Tensorflow, analyzing the performances of different optimizer such as gradient descent optimizer, adagrad optimizer, adam optimizer, and momentum optimizer.
- Learned some knowledge about the deep learning network, also got some experience of working as a team member.

Project Experience

Participant, A Fact Verification System Mar – Jun 2019
Completed in Web Search and Text Analysis subject

- Built a system for justifying whether a fact was correct or wrong based on the support of downloaded wiki texts. It could be unknown due to lack of information.
- System contains IR part and justifying part.
- All system was built in Python, also with the AllenNLP framework.
- Learned some technical skills of teamwork and some convenient online tools, such as git, Google colab, and Google doc.

Participant, A Peer to Peer File Synchronization System Mar – Jun 2019
Completed in Distributed System

- Built a file synchronization with peer to peer structure.
- All done with Java, including the multi-threading, TCP and UDP communication protocols. (FileSystem APIs were provided by the lecturer).
- Learned the skill of building a system in a team, for example, communicating with teammates and reading their comments and explanations.

Individual capstone, Human facial expression recognition based on AlexNet: Feb – Jun 2018

- Built a CNN with the same structure of AlexNet to work on facial expression recognition.
- Dataset was got from the internet and divided them into 7 kinds of facial expressions, which are anger, disgust, fear, happy, sad, surprised, normal.
- Learned the background knowledge of TensorFlow and basic knowledge of CNN.

Team Leader, Shanghai University Students' Innovative Project: Personalized Recommendation Service System for Library Based on Data Mining Mar 2017 – Feb 2018

- Built library mining model to reduce resources' idle rate.
- Created an automated dynamic recommended booklist for each reader based on their borrowing history with the methods of collaborative filtering and association rules. Stored their personal information and reading preference in a library for prediction by Python, and MATLAB.
- Understand the role and responsibility of a team leader and got a great experience of assigning tasks to team members and making decisions.

Individual Task, Design of an system able to automatically generate a PowerPoint Jul 2016 - Sep 2017

- Designed a system based on the machine learning methods to select significant information for a news page online and saved them.
- Made a program to generate a PowerPoint automatically based on the saved information including the headings, subheadings, and the texts.

Individual Task, Pipeline CPU Programming Based on MIPS Mar 2016 – Jun 2016

- Used Verilog hardware language to write pipeline CPU.
- Made ISE procedure to redact and utilized modalism for simulation based on MIPS.

Individual Task, Human Face Classification System Oct 2017-Nov 2017

- Used principal component analysis to preprocess the human face dataset and backpropagation neural network to classify them.
- Used linear discrimination analysis to process and classify the human face dataset.

Participant, Images Fusion Based on the Wavelet Analysis Jan 2018

- Processed two same pictures which are different from the vague parts through the wavelet analysis method.
- Made the two analyzed pictures into a more distinct picture by three strategies.

Skills and Expertise

Software	Proficient in Visual C++6.0, Visual Studio, PyCharm, Idea IntelliJ, MATLAB, Navicat, Phpstorm
Programming	Proficient in C++, Java, Python, MFC, Verilog, SQL, TensorFlow(framework), flask(framework)
Skills	Familiar with communication and listening skills, good understanding, passionate about contacting with innovative technology and learning new methods.