Zhaobo Ding

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EDUCATION

UNIVERSITY OF WATERLOO
•2B Computer Science

UNIVERSITY OF WATERLOO
•2B Statistics

•Expected graduation time: 2020
•GPA for core courses: 3.9

LINKS

Github:
MashedPotatoDing
LinkedIn:
Zhaobo Ding
Personal Page:
dingzhaobo.net

SKILLS

PROGRAMMING
• C •C++ • Java • Perl
• Python • Shell

WEB DEVELOPMENT
• HTML • CSS • JavaScript
• Node.js

TECHNOLOGY
• Matlab • AWS • TensorFlow
• Octave • Git • DialogFlow

DATABASE
• SQL • MongoDB

AWARDS

UNIVERSITY (2017)
•Term Dean's Honors List of Mathematics
•University of Waterloo President's Scholarship

HIGH SCHOOL
•First Prize in Senior National Olympiad in Informatics in China (2015 & 2016)
•First Prize in Junior National Olympiad in Informatics in China (2012 & 2013)
•First Prize in Senior National Physical Competition (2016)

EXPERIENCE

INTEGRATED DEVICE TECHNOLOGY | Algorithm Engineer
January 2018 - April 2018 | Waterloo, Ontario, Canada

- Created and managed the first two versions of pre-configured AMI on AWS EC2 virtual Linux system to build the FPGA environment for the software team.
- Implemented Shell, Python and Perl scripts for data analyzing.
- Earned experience in developing by C and C++ while working with R11F team .

XINCHUANG | Quality Assurance
September 2016 – December 2016 | Nanjing, Jiangsu, China

- Investigated customer complaints.
- Collected and compiled statistical quality data.
- Analyzed the data and areas for improvement in the quality system.

NANJING UNIVERSITY | Experimenter
July 2015 - August 2015 | Nanjing, Jiangsu, China

- Used Matlab and Python Script for experiment data analysis.
- Earned research experience while performing physical experiments and analyzing experimental data with professors and other experimenters.

PROJECTS

SNAKE GAME AI BOT
- An AI bot based on neural network, which can smartly play the snake game to get a high score like humans.
- Used TensorFlow and TFLearn library in Python for machine learning and Pygame library for graphical user interface.
- The snake game itself is an object-oriented project.

UW SCHEDULE
- A web application that helps University of Waterloo students schedule their courses by providing the name of courses they hope to take.
- Varied kinds of filters are provided to users.

ALYSSA
- Alyssa is the name of my AI talking robot who can talk and make an introduction for me to users.
- The sever is set by Node.js to process requests and replies.
- Used Google DialogFlow for machine learning and natural language processing.

JOBOCOIN
- My self-configured cryptocurrency based on CryptoNoteCoin and compiled on AWS instance.
- Totally supplies 2^{64} coins and the expected difficulty target is 150 seconds per node.

BAMBOO ALBUM (HACKATHON TEAMWORK)
- An online album adding tags for users' photos automatically to help users to search for their photos by tags.
- Developed based on MongoDB, Express, Angular, Node.js as well as Microsoft Computer Vision API.