Yilin Li

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Education Background

University of Michigan - Ann Arbor

MI, USA

Master of Science in Electrical and Computer Engineering (Minor: Computer Vision)

Sep 2021 - Apr 2023

Email: yilinliz@umich.edu

GPA: 4.00/4.00

Courses: Data Manipulation and Analysis, Machine Learning, Computer Vision, Database App Design, Intermediate Programming

Zhejiang University

Hangzhou, China

Bachelor of Engineering in Electronic Information (Minor: Information Engineering)

Sep 2017 - June 2021

GPA: 3.68/4.00 (Major: 3.82/4.00)

Courses: Numerical Analysis Methods, Digital Image Processing, Data Analysis and Algorithm Design, Computer Composition and

Design

Skills Summary

• Programming languages: C/C++, Python, Java, JavaScript, HTML, CSS, Shell, SQL, Julia, Verilog

• Tools & Frameworks: Git, AWS, Linux, Docker, MongoDB, PyTorch, TensorFlow, Django, React, Flask, Pandas

Related Experience

Huawei Hangzhou Research Institute

Hangzhou, China

Software Development Engineer Intern

July 2020 - Aug 2020

- Code Optimization: Reduced the cyclomatic complexity of more than 25 functions.
- o Compiler Bug Fix: Updated dependent library versions and fixed conflicts, successfully located and solved the failure of several example test cases using the GDB debugger.
- New Feature Development: Learned LLVM basics and developed a new pass to estimate compilation time.

Tokyo Institute of Technology

Tokvo, Japan

Summer School

July 2019

- Assemble Program and Analysis: Implemented and optimized various functions of a basic calculator.
- FPGA-implemented Applications: Implemented a multi-machine interactive chat program and a chess game program.

Research and Projects

• A Compiler For The COOL Programming Language:

- o Implemented the four phases of the compiler, including lexical analysis, syntax analysis, semantic analysis, and code
- o Successfully compiled the COOL high-level language to MIPS assembly and executed successfully on SPIM, the MIPS simulator.

Tech: C++ (Mar 2023 - June 2023)

• A Movie Recommendation System Using Collaborative Filtering:

- o Designed and implemented a movie recommendation system with good user interface.
- o Provided reasonable movie recommendation results based on filter criteria keywords.

Tech: HTML, CSS, JavaScript, Django, SQLite (Oct 2022 - Dec 2022)

• A Student Management System:

- o Design and implement a student management system with different permissions of student teaching assistants and teachers.
- Realized the functions of adding courses, adding grades, modifying student information, etc.

Tech: Python, HTML, CSS, JavaScript, Django(Jan 2022 - Apr 2022)

• Image Inpainting Using GAN, Partial Convolution And Region Normalization:

- o Proposed a model based on a conditional GAN, replaced all convolutional layers with partial convolutional layers.
- o Implemented Region Normalization in the Generator, and achieved better qualitative and quantitative results.

Tech: Python, Computer Vision, GAN (Oct 2021 - Dec 2021)

Honors and Awards

- Outstanding Graduate of Zhejiang University 2021
- Meritorious Winner in Mathematical Contest in Modeling 2020
- University Student Scholarship of Texas Instruments 2019
- Outstanding Volunteer of Zhejiang University 2019

Other Experience

Volunteer teacher in elementary school

Jinhua, China