

Yilin Li

Website: <https://yilinli-um.com/portfolio/>

GitHub: <https://github.com/Phantom-eva>

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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
GPA: 4.00/4.00
Courses: Data Manipulation and Analysis, Machine Learning, Computer Vision, Database Application Design
- 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 Organization and Design, Wireless Network Application

Skills Summary

- Programming Languages:** C/C++, Python, Java, JavaScript, HTML, CSS, Shell, SQL, Julia, Verilog, MATLAB
- Tools & Frameworks & Platform:** Git, Linux, PyTorch, TensorFlow, Django, React, Flask, Pandas, AWS, Docker, MongoDB, FPGA

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.
 - 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** Tokyo, 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

- Personal website template built with react:**
 - Built a personal website template using React.js. Provided multi-page layout.
 - Realized online form contact via Email.js. Implemented an fully interactive design.GitHub: <https://github.com/Phantom-eva/portfolio>
Tech: JavaScript, React.js Bootstrap, Email.js (Mar 2023 - June 2023)
- A Compiler For The COOL Programming Language:**
 - Implemented the four phases of the compiler, including lexical analysis, syntax analysis, semantic analysis, and code generation.
 - 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:**
 - Designed and implemented a movie recommendation system with good user interface.
 - Provided reasonable movie recommendation results based on filter criteria keywords.GitHub: <https://github.com/Phantom-eva/movie-recommendation>
Tech: HTML, CSS, Python, Django, SQLite (Oct 2022 - Dec 2022)
- Image Inpainting Using GAN, Partial Convolution And Region Normalization:**
 - Proposed a model based on a conditional GAN, replaced all convolutional layers with partial convolutional layers.
 - Implemented Region Normalization in the Generator, and achieved better qualitative and quantitative results.GitHub: https://github.com/Phantom-eva/image_inpainting
Tech: Python, Computer Vision, GAN, PyTorch (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
Taught more than 30 students science and managed the daily affairs of the class Summer 2018