

Can Wang

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Education

Jiangnan University

Wuxi, China

B.Eng in Computer Science & Technology

Sept. 2017-Jun. 2021(Expected)

GPA: 87.87/100 (Major: 91.06/100, WES: 3.73/4, Ranking: Top 8%)

Scholarships: Jiangnan University Outstanding Student Scholarship (Top 3%/2020 & Top 10%/2019);
Yuanxiang Study Tour Scholarship (Top 10%/2018)

Experience

Empyrean, China Electronics Corporation

Beijing, China

Software Engineering Intern

Sept. 2020-Present

- Designed and implemented a mask analysis and rules checking module of Empyrean EmapFPD™ EDA tools based on Qt, C++ and OpenAccess database
- Implemented a verifying and grading module of China IC and EDA Design Elite Competition in 2020 based on Python as well as visualization tools by using OpenCV

Hong Jing Drive Technology Co., Ltd.

Shanghai, China

Software Engineering Intern

Jan. 2020-Feb. 2020

- Redesigned, developed and applied a detection and classification module based on TensorPack and Keras to the large multi-node & multi-GPU distributed system, improving training efficiency to more than 25%
- Engaged with Algorithm development team throughout the agile development life cycle, refined past documentations, as well as organized and attended daily standups and code reviews

Pattern Recognition and Computational Intelligence Lab, Jiangnan University

Wuxi, China

Undergraduate Research Assistant

Oct. 2019-Jun. 2020

- Reconstructed and maintained the existing laboratory code repositories by using Python, including object detection model APIs, visualization tools, etc.
- Took responsibility for paper research on image detection & image segmentation of lung cancer as well as implemented and tested model performance by using Keras and PyTorch

Selected Projects

ImageNet Image Classification Adversarial Attack

- Designed and implemented a CNN fusion model based on ResNet152 and ResNext101 via PyTorch as well as conducted adversarial trainings on the divided ImageNet datasets
- Improved transferability of the attack model by using ensemble learning and image augmentation algorithm with the final ranking of 7/1249

InstaDairyFarm: B/S Online Monitoring & Management Platform

- Implemented the backend server module based on RESTful APIs by using SpringBoot, and enhanced efficiency of CRUD operations by using MyBatis and Redis
- Improved the system accessibility by using XGBoost algorithm for data prediction, using Pandas & Sklearn for data analysis and using ECharts for visualizing the analysis results

Mini-C: Lightweight C Language Compiler

- Implemented DFA, SLR(1) and intermediate code generator of RISC-V instructions by using C++
- Developed a calculator based on Flex and Bison to support various mathematical expressions including power, square root, logarithm, trigonometric function, factorial and bit operations

US Patent: A National Instrument Solution for Deprocessing A IC Chip (Pending)

- First Inventor, Shanghai Youci Information Technology Co., Ltd.

Skills

Language: C/C++, Python, Java, JavaScript, LaTeX

Database: MySQL, SQL Server, Redis

Frame & Tools: OpenCV, Qt&PyQt, SpringBoot, PyTorch, Keras, MyBatis, Vue, Git, SVN, Vivado