

Zheng Luo

Seeking for SDE Intern opportunity in Summer 2019

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Internships

Dev Intern at Pygmal Technologies

Feb. 2017 - Jan. 2018

Pygmal Technologies is a successful startup founded by an ex-Google. Responsible for maintaining and adding new functionalities for a VR desktop environment, [SPACE](#), which involves integration with CEF (Chromium Embedded Framework) as well as rendering using C++ and DirectX. Also implemented and optimized a ray tracer from scratch based on Embree, which outputs 720p results for a scene with ~300k faces on a workstation in real-time.

Dev Intern at Ant Financial, Alibaba Group

Jun. 2016 - Sept. 2016

Mainly responsible for developing an internal Docker-based container platform, Ant Container Service (ACS). Spent most time implementing an orchestration module similar to docker-compose with Go.

Projects & Contribution

Go AI

Leader of a group of four, class project

Implemented a Go AI based on AlphaGo's first paper with UCT tree search and a policy neural network. Responsible for board class, UCT search as well as communication module with Protobuf-based serialization in C++ and Python. Beated Facebook's DarkForest(1st ver.) and GNU Go.

Compile-time Static Map in C++ for Boost library

Individual contribution to open-source project, as a proposal for Boost GSoC 2017

Implemented a static_map class, which supports compile-time lookup with a given key, for C++ Boost library

Awards & Publication

Ranked 72nd in Google CodeJam Kickstart Round D

Conference paper(coauthor): *BAHS: A Bandwidth-Aware Heterogeneous Scheduling Approach for SDN-based Cluster Systems* on ISPA 2017

Patent: *An Analysis on Academic Big Data Based on Paper References*

Key Skills

Writing production-level C++14/17
Linux usage and system programming
Micro-optimization and profiling

Debugging using GDB
Writing Go
Docker usage and implementation

Education

M.S. in Computer Science at UC San Diego

Expected to graduate in fall/winter 2019

B.E. in Computer Science at Shanghai Jiaotong University

2014 - 2018, GPA 3.7 @ Top 30%