

CORE SKILLS

Programming Languages: C/C++, Python, JavaScript, Rust

Frameworks and Tools: Vue.js, Unity, Git

EDUCATION

ShanghaiTech University

Bachelor of Engineering, Computer Science and Technology

GPA: 3.73/4.0 (Top 6%) overall, 3.93/4.0 specialized

Shanghai, China

Expected 2022

HONORS AND AWARDS

Merit Student of ShanghaiTech University

Dec, 2020

Undergraduate Scholarship (Top 7%-15%) in ShanghaiTech University

Dec, 2019

WORK AND RESEARCH EXPERIENCE

System & Software Security Lab (S³L) of ShanghaiTech University

Shanghai, China

Research Assistant

Jul, 2019 – Present

- Researching on formal verification methods of the Diem Blockchain (previously named Libra) by Facebook.
- Developing a extensible symbolic execution framework using Rust for Move, the programming language for the Diem Blockchain.
- The work mainly involves smart contract virtual machine, symbolic execution, constraint solving with strengthening.

DEEMOS Tech and MARS Lab of ShanghaiTech University

Shanghai, China

Full Stack Engineer

Oct, 2020 – Jan, 2021

- Developed a realtime data tranporting framework and an Unreal plugin using Aeron.
- Developed and deployed a deep learning face VFX web application using Vue.js.
- Worked on a Instagram-like photo sharing website project using Vue.js and Strapi.js.
- Worked on a AR VFX application project using Unity and Apple ARKit.

PROJECT WORK

ATNet CS120 Computer Network

Spring 2020

- Developed a computer network using sound cards and acoustic signals from scratch.
- Implemented from physical layer to transport layer, providing a reliable data link and supporting ICMP ping, basic NAT and FTP.

A Classroom Offline Renderer CS171 Computer Graphics I

Fall 2019

- Implemented a global illumination renderer using path tracing.
- Implemented loop subdivision algorithm.
- Implemented a volume renderer using ray casting.

VChain: A Blockchain and Telematics Based Driver Assistance Decision and Insurance Assessment System

The Best Award of BitRun 9102 Hackathon, Hangzhou

Apr, 2019

The value of VChain comes from the application of driver-assisted decision making and the innovation of the business model, the former relying on blockchain security and computation without latency, and the latter as a result of data aggregation and movement.

- In one scope, multiple car sensors and their data transactions are trusted by the blockchain created by CPChain.
- Artificial intelligence decision making, based on IoT big data. Heterogeneous data interoperability, resulting in big data aggregation.
- Interaction and application of data assets, data assets are leveraging the verifiable characteristics of the main chain to benefit emerging business models such as insurance valuation.

hexo-theme-next Open Source Project

2018 – 2019

Core Maintainer

hexo-theme-next is the most popular theme of Hexo, a static site generator.

- Issue and Pull Request reviewing, refactoring codes from v6.0 to v7.0.

- Developed a social content sharing plugin.
- Fixed a security bug in its visitor counting system which cloud lead to unauthorized modification of website contents.

TEACHING EXPERIENCE

Unity Game Development *Teaching Assistant*

Jul, 2020 – Aug, 2020

Introduction to Information Science and Technology *Teaching Assistant*

Mar, 2020 – Jun, 2021

MISCELLANEOUS

Language: Chinese(Native), English(Fluent); CET-6, TOEFL: 104