

Haofan Zheng

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Education

Doctoral Program in Computer Science

2017 - Present

University of California, Santa Cruz

Research Area: System Security

Selected **Decent Framework**

Projects A framework for building secure distributed application with enclaves

Related talk at OSEW'19 youtu.be/ZF9BbnoJptM

- Provide scalable remote attestation protocol with the self-attestation
- Solve mutual authentication issue by using the Authorized List
- Allow runtime modification to the Auth List by using verifiers and revokers

DecentHT

A Distributed Hash Table (DHT) storage system built on top of Decent framework

- No need for the centralized proxy, or extra key management schemes
- Authorized enclaves can access data and perform remote computations
- Prevent many Sybil attacks and detect network routing attacks

Bachelor of Science in Computer Science, *summa cum laude*

2013 - 2017

West Virginia University

Cumulative GPA 3.95, Major GPA 4.0

Honors **Ralph M. Barnes Senior Scholastic Achievement Award**

For students who graduated with the highest GPA during the junior and senior years as a full time student

Benjamin M. Statler College, West Virginia University, Morgantown, 2017 Spring

Honorary Citizen of Morgantown

Morgantown, 2017 Spring

President's List, West Virginia University

For students who enrolled 12 units of ABC grading courses and obtained a 4.0 GPA

Morgantown, 2014 Spring (~7.9%), 2014 Fall (~7.9%),

2015 Spring (~8.2%), 2015 Fall (~8.5%), 2016 Spring (~8.2%)

Dean's List, Benjamin Statler College of Engineering and Mineral Resources

For students who enrolled 12 units of ABC grading courses and obtained a 3.5 GPA

West Virginia University, Morgantown, 2013 Fall (~15.9%)

Blue & Gold Level 2 Scholarship

West Virginia University, Morgantown, 2013 - 2017

Selected **Fake News Detection**

Projects A term project (work in group) for CS 472, Artificial Intelligence

Use recurrent neural network (RNN) to detect fake news

Determine if a news is fake. Highlight the words (sentences) that RNN considers not true

Smart Wheels

A senior project (work in group) for CS 480 & 481, Senior Design & Senior Project

A intelligent race car for NXP Cup

Use image from area camera to recognize the track, so the car can drive autonomously

Experience

Graduate Student Researcher on System Security

2017 - present

University of California, Santa Cruz

Advisor: Dr. Owen Arden

- Design framework used for building secure decentralized application with enclaves
- Implement SDKs\applications with Intel SGX, in C\C++

Teaching Assistant of CMPS 109 Advanced Programming

Fall Quarter 2017

University of California, Santa Cruz

Professor: Dr. Ira Pohl

- C++ Programming for C programmers
- Graph algorithms including some basic AI algorithm (e.g. Minimax, Alpha-Beta, Monte Carlo)
- Hold discussion section and office hour, and grade homework and exams

Software Engineer at syGlass

05/2015 - 05/2017

West Virginia University

Advisor: Dr. Gianfranco Doretto and Dr. George Spirou

syGlass (www.syglass.io) is a 3D Virtual Reality Scientific Visualization System

It was presented at the 2016 Society for Neuroscience meeting

- Develop the first version of syGlass on Unreal Engine
- Program in C\C++ with OpenGL, GLFW, GLM, OpenVR, Boost, CURL, and more
- Integrate CMU Sphinx voice recognition and HTC Vive

Skills

Chinese (Native), English (Fluent)

C++, C, Java, Python, CMake, SQL, HTML, PHP, CSS