

# Haofan Zheng

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<http://haofan Zheng.com/>

## Education **Doctoral Program in Computer Science**

University of California, Santa Cruz

2017 - Present

Research Area: Computer Security.

### Projects **CryptDB with Enclave**

A encrypted database using both CryptDB and enclave.

- Use CryptDB to perform equality and ordering checking.
- Use enclave to perform other calculation/operation, and process highly sensitive data.
- Implement enclave application with Intel SGX (Software Guard Extension).

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

West Virginia University

GPA: 3.95, 2013 - 2017

### 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

### Projects **Fake News Detection**

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 be autonomously driving.

## Experience **Graduate Student Researcher on Computer Security**

University of California, Santa Cruz. 2017 - present

Secure Decentralized Applications

Advisor: Dr. Owen Arden

- Implement enclave applications using Intel SGX.
- Program in C\C++.

Experience **Teaching Assistant of CMPS 109 Advanced Programming**

University of California, Santa Cruz. Fall Quarter 2017

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. Grade homework and exams.

**Software Engineer at syGlass, Morgantown, W.V.**

05/2015 - 05/2017, <http://www.syglass.io/>

syGlass is a 3D Virtual Reality Scientific Visualization System, and 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, Visual Basic, SQL, HTML, CSS, PHP**

Professional  
Society  
Memberships **ACM, IEEE**