

Zhanhao Chen | Resumé

458 Montclair Ave, 18015 Bethlehem, PA, USA

☎ +1 (484) 379 7204 • ✉ zhc416@lehigh.edu • 🌐 zhanhao.org
📁 github.com/nkdxczh

Education

Lehigh University

M.S. in Computer Science, *Current GPA: 4.0/4.0*

Pennsylvania, USA

Sept. 2016 – Expected Jun. 2018

Nankai University

B.E. in Software Engineering, *GPA: 3.6/4.0*

Tianjin, China

Sept. 2012 – Jun. 2016

- Got "Gong Neng" scholarship for three times.

Project Experience

Deterministic Browser Project

Research Assistant, SEC Lab (Prof. Yinzhi Cao), Lehigh University

Pennsylvania, USA

Oct. 2016–Present

- Built an execution time deterministic browser based on Firefox to defend time channel attack.
- Implementation: Modified browser's JS engine and concurrency model in C++; Rescheduled browser's tasks and data synchronization to retain original functions; Implied several time channel attacks for evaluation in Javascript.

Indoor Navigation System

Research Assistant, Nankai University

Tianjin, China

Oct. 2015–Jun. 2016

- Developed a Bluetooth (iBeacon) based navigation system including a map import tool, an Android App and its back-end (J2EE server and MySQL database).
- Implementation: Import geographical data from real indoor parking lot map; Design database for map and user data to support basic navigation and position marking and sharing functions; Display 3D map on Android app with OpenGL.

Fine-grain Leaf Recognition Project

Research Assistant, Nankai University

Tianjin, China

Jun. 2014–Mar. 2016

- Extracted and evaluated several graphic texture features for leaf recognition based on over 1000 images.
- Implementation: Applied OpenCV for graphic processing and data mining Migrated the research result (feature extraction and classification model) to an Android application with OpenCV4Android; Developed the backend with MVC and MySQL to support information retrieval.

Internship

Java Development Internship

Java Developer, ChinaSoft International

Tianjin, China

Jun. 2014–Aug. 2014

- Contributed to develop a shopping website and its Android application.
- Implementation: In charge of front-end (Web and Android app) design and implementation with javascript; Contributed to database design and Spring MVC architecture coding.

Publication

- **Deterministic Browser.**
Second author. ACM CCS 2017 (ACM Conference on Computer and Communications Security).
- **Feature Evaluation in Fine-gain of Leaf.**
First author. ICMMCT 2016. Hangzhou, China, DOI=doi:10.2991/icmmct-16.2016.35 (Ei Compendex)

Honors & Awards

2015 **Mathematical Contest In Modeling** Meritorious Winner

USA

2015 **National Science & Technology Competition** Second Award

China

Skills

Language : (Proficient) Java, Python; (Familiar) C++, C, javascript, HTML/CSS, Matlab

Frameworks/Tools : Tomcat, Spring MVC, J2EE, MySQL, ElasticSearch, OpenCV, OpenGL, scikit-learn, Scrapy