

Zhanhao Chen | Resume

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Education

Lehigh University

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

*Bethlehem, Pennsylvania
Sept. 2016 – Jun. 2018 (Expected)*

Nankai University

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

*Tianjin, China
Sept. 2012 – Jun. 2016*

- Got school scholarship (15%) 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 against timing channel attacks.
- Implementation: Modified browser's JavaScript engine and concurrency model in C++; Rescheduled browser's tasks and data synchronization to retain original functions; Implemented several time channel attacks for evaluation.

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: Imported geographical data from real indoor parking lot map; Designed database for map and user data to support basic navigation and position marking and sharing functions; Displayed 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 the plant database from the Intelligent Computing Lab of Chinese Academy of Science.
- 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 (Model-View-Controller) and MySQL to support information retrieval.

Internship

Java Development Internship

Java Developer, ChinaSoft International

*Tianjin, China
Jun. 2015 – Aug. 2015*

- Contributed to develop a shopping website and its Android application.
- Implementation: Being 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

Yinzhi Cao, **Zhanhao Chen**, Song Li and Shujiang Wu

In the Proceedings of The ACM Conference on Computer and Communications Security (CCS), 2017 (18%)

○ Feature Evaluation in Fine-gain of Leaf

Zhanhao Chen, Shan Xu, Yixiong Zou, Hualong Zhang, Zhu Zhang, Yue Li, Wei Wang

In the Proceedings of The International Conference on Machinery, Materials and Computing Technology, 2016

Honors & Awards

Mathematical Contest In Modeling Meritorious Winner

2015, USA

National Science & Technology Competition The Second Award

2015, China

Skills

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

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