Zhanhao Chen | Resumé

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⌗ github.com/nkdxczh

Education

Lehigh University   *Pennsylvania, USA*
M.S. in Computer Science, *Current GPA: 4.0/4.0*   *Sept. 2016 – Expected Jun. 2018*

Nankai University   *Tianjin, China*
B.E. in Software Engineering, *GPA: 3.6/4.0*   *Sept. 2012 – Jun. 2016*

- Got "Gong Neng" scholarship for three times.

Project Experience

Deterministic Browser Project   *Pennsylvania, USA*
Research Assistant, SEC Lab (Prof. Yinzhi Cao), Lehigh University   *Oct. 2016–Present*

- Built an execution time deterministic browser based on Firefox to defend time channel attack.
- Implementation: Modified browser's Javascript engine and concurrency model in C++; Implied several time channel attacks for evaluation in Javascript.
- Github Link: `https://github.com/nkdxczh/deterfox-patch.git`

Indoor Navigation System   *Tianjin, China*
Research Assistant, Nankai University   *Oct. 2015–Jun. 2016*

- Developed a Bluetooth (iBeacon) based navigation system including a map import tool, an Android App and its back-end (server and database).
- Implementation: Optimized iBeacon usage with heuristic algorithm in Matlab; Display 3D map with OpenGL.

Fine-grain Leaf Recognition Project   *Tianjin, China*
Research Assistant, Nankai University   *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 in C++; Migrated the research result (feature extraction and classification model) to an Android application with OpenCV4Android.

Internship

Java Development Internship   *Tianjin, China*
Java Developer, ChinaSoft International   *Jun. 2014–Aug. 2014*

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

Publication

- **Deterministic Browser** (under review).
  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 **National Science & Technology Competition** Second Award   *Tianjin, China*
2015 **Mathematical Contest In Modeling** Meritorious Winner   *Tianjin, China*
2014 **Excellent Team Award of the ChinaSoft internship**   *Tianjin, China*

Skills

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

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