

Zhiqi (Birkhoff) Cheng

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Education

Bachelor of Science in Computer Science, University of Illinois Urbana-Champaign

Champaign, IL

August 2019 - May 2023

GPA: 4.0 / 4.0

- CS 126: Software Design Studio
- CS 173: Discrete Structures
- MATH 241: Calculus III Honors

Carnegie Mellon University

Pittsburgh, PA

June 2018 - August 2018

GPA: 4.0 / 4.0

- 15-122: Principles of Imperative Computation
- 21-127: Concepts of Mathematics

Oak Grove School

Ojai, CA

January 2017 - June 2019

GPA: 4.3 / 4.0

- AP Calculus BC
- AP Computer Science A
- AP Physics C: Mechanics

Experience

Internship at Chinese Academy of Science

Beijing, China

Software Engineer

October 2016

- Developed control software in C for Unmanned Aerial Vehicle.
- Conducted simulation of existing software's performance on UAV.
- Enhanced reliability of existing flight control system.

Extracurricular

DEFCON 805

Ojai, CA

Founder

September 2018 - Present

- Taught concerned individuals how to use privacy-enhancing tools.
- Promoted cybersecurity in the under-served Ventura county.

Technology Committee

Ojai, CA

Founder

October 2017 - July 2019

- Performed periodic evaluations of school network security.
- Patched vulnerabilities in the school network and student computers.
- Revised technology policies to better utilize online resources to assist teachers and students.

Translation and Code Review

Online

Volunteer

January 2017 - Present

- Translated the user interface of Tutanota from English to Chinese to allow better utilization by Chinese users.
- Reviewed code of Tutanota, HTTPS Everywhere, and TorButton to check for vulnerabilities.

Skills

Programming languages: C (Proficient), Java (Proficient), Python (Familiar), JavaScript (Familiar)

Software: GNU/Linux, Git, Metasploit, Nginx, OpenVPN, Bash

Links

GitHub: <https://github.com/birkhoffcheng>

LinkedIn: <https://www.linkedin.com/in/birkhoffcheng>