

Zhiqi (Birkhoff) Cheng

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Education

B.S. in Computer Science, University of Illinois Urbana-Champaign

Champaign, IL

August 2019 - May 2022

GPA: 3.95 / 4.0

- CS 233: Computer Architecture
- CS 241: System Programming
- CS 374: Algorithms & Models of Computation
- CS 421: Programming Languages & Compilers

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

Professional Experience

University of Illinois Urbana-Champaign

Champaign, IL

Course Assistant

January 2020 - Present

- Conduct and moderate weekly code review sessions for CS 126.
- Give students constructive criticism to facilitate programming skill growth.

Internship at Chinese Academy of Science

Beijing, China

Software Engineer

October 2016

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

Extracurricular

ACM@UIUC SIGPwny

Champaign, IL

Member

August 2019 - Present

- Played in Pwny CTF and got third place.
- Contributed to the SIGPwny team in CSAW competition.

DEFCON 805

Ojai, CA

Founder

September 2018 - Present

- Organized 30+ concerned individuals and taught the usage of privacy-enhancing tools.
- Promoted cybersecurity in the under-served Ventura county.

Skills

Programming languages: C, C++, x86 Assembly, MIPS Assembly, Java, Python, Haskell

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

Links

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

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