

# HAOZHE ZHOU

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## EDUCATION

**Ph.D., School of Computer Science, Carnegie Mellon University**  
Societal Computing, Software and Societal Systems Department  
Advisors: Yuvraj Agarwal, Mayank Goel

August 2022 - Present  
Pittsburgh, Pennsylvania, USA

**B.S., Department of Computer Science, Purdue University**  
Computer Science Honors, Minor in Mathematics  
GPA: 3.97/4.00, Graduation with Highest Distinction

August 2018 - December 2021  
West Lafayette, Indiana, USA

## RESEARCH EXPERIENCE

**Graduate Research in Ph.D. Program**  
Carnegie Mellon University, Software and Societal Systems Department

May 2022 - Present  
Advisors: Yuvraj Agarwal, Mayank Goel

**Undergraduate Computer Science Honors Research**  
Purdue University, Department of Computer Science

January 2021 - December 2021  
Advisor: Z. Berkay Celik

**Undergraduate Research Assistant**  
Purdue University, Polytechnic Institute

August 2018 - December 2021  
Advisor: Richard M. Voyles

## INDUSTRY EXPERIENCE

**Data Science Intern**  
Trendalyze Inc.

March 2022 - May 2022  
(Remote) Newark, NJ, USA

Conducted literature review in existing works in QRS detection and ECG delineation  
Collaborated with medical specialists to design and implement unsupervised R-peak detection algorithm  
Evaluated R peak detection against MIT-BIH dataset in terms of accuracy and R-peak offset.

## TEACHING EXPERIENCE

**CS250 Computer Architecture**  
Undergraduate Teaching Assistant

August 2021 - December 2021  
Purdue University, IN, USA

**STAT290 The Data Mine**  
Undergraduate Teaching Assistant

August 2021 - December 2021  
Purdue University, IN, USA

**CS390 Neural Image Processing**  
Undergraduate Teaching Assistant

January 2021 - May 2021  
Purdue University, IN, USA

## HONORS AND AWARDS

Sansom Graduate Fellowship, Carnegie Mellon University  
Graduation with Highest Distinction, Purdue University  
College of Science Alumni Summer Research Fellowship, Purdue University  
Summer Stay Scholars Scholarship, Purdue University  
Computer Science Honors Program, Purdue University  
Dean's List and Semester Honors, Purdue University

October 2023  
December 2021  
April 2021  
May 2020  
2019 - 2021  
2019 - 2021

## PUBLICATIONS

Sangjun Eom, **Haozhe Zhou**, Upinder Kaur, Richard M. Voyles, David Kusuma. (2022) TupperwareEarth: Bringing Intelligent User Assistance to the "Internet of Kitchen Things". Full Paper. *IEEE Internet of Things Journal*. (Accepted)

Upinder Kaur, **Haozhe Zhou**, Xiaxin Shen, Byung-Cheol Min, and Richard M. Voyles. RoboMal: Malware Detection for Robot Network Systems. Full Paper. In *2021 IEEE International Conference on Robotic Computing (IRC)*. November 2021. (Accepted)