Terence Zeng

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Portfolio: https://terencezeng6.github.io/

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Education

University of Illinois, Urbana-Champaign *Expected Graduation Date: May 2025*
Bachelor of Science in Computer Engineering, minor in Mathematics

- **GPA:** 4.0 (Dean's List, James Scholar)
- **Relevant Coursework:** Data Structures & Algorithms, Computer Systems & Programming, Differential Equations, Linear Algebra with Computational Applications, Microeconomics, etc.

Experience

Intern *July 2023*
Guotai Junan Investments (Hong Kong) Limited

- Automated analytical process of incoming trade data to assist trading decisions by integrating tools such as Python, OpenPyXL, Pandas, and BeautifulSoup with the system

Course Assistant, ECE 120 (Introduction to Computing) *January 2023 - Present*
Grainger College of Engineering, University of Illinois Urbana-Champaign

- Grade students' assignments and provide feedback on clarity and accuracy of solutions
- Work with TAs and professor as a team to assist students in developing computing skills

Research Intern *June 2021 - March 2022*
Bandodkar Research Group, ECE Department, NC State University

- Developed computer models for wearable biosensors which monitor for diseases and medical conditions, using tools such as Fusion360, AutoCAD, and mathematical modeling
- Collaborated with graduate students to initiate project ideas, analyze results, and troubleshoot issues

Projects

Machine Learning Facial Analysis Displayed on LED Matrix - github.com/terencezeng6/eoh23

- Consolidated microcontroller, LED system, and programs to develop project for Engineering Open House
- Detects facial features and emotional state of subjects and displays infographic on an embedded LED matrix, using tools such as TensorFlow, OpenCV, and Google MediaPipe computer vision framework

Computerized Simulation of Binary Black Hole Trajectory - github.com/terencezeng6/binary-black-holes

- Developed a complex Python (with NumPy, Matplotlib) program that simulated path of binary black hole system by calculating metrics such as energy and radii over time using data from LIGO observatory

Skills

- Languages: Python, Java, JavaScript, C++, HTML, CSS
- Tools: Git, Google Cloud, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Quartus, Docker
- Libraries: NumPy, MatPlotLib, TensorFlow, OpenCV, Pandas, BeautifulSoup, OpenPyXL
- CAD: AutoCAD (certified), Revit (certified), Fusion 360, Solidworks, 3DS Max, Inventor

Activities/clubs

- Earthquake Engineering Research Institute - AutoCAD specialist, committee member
- Open-Source @ Illinois - Engineering Open House Project - hardware subteam
- UIUC Competitive Math
- Institute of Electrical and Electronics Engineers