

ZIHENG CHEN

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EDUCATION

May 2023

Bachelor of Science in Computer Engineering

University of Illinois at Urbana Champaign

- Minor in Mathematics
- Dean's List: Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021
- GPA: 4.0/4.0
- Excelled courses in Data Structures, Introduction to Algorithms, Probability and Statistics, Machine Learning, Computer Systems Engineering, Parallel Programming

SKILLS

- Proficient in C, C++, Python, SQL
- Familiar with x86 Assembly, SystemVerilog
- Familiar with Microsoft Azure, Snowflake

PROJECTS

OpenFlights

- Constructed data structure to host flight data from openflights.org
- Successfully implemented Landmark, PageRank, and Dijkstra's algorithms

Pac-Man

- Created a functioning Pac-Man game on FPGA using SystemVerilog
- Designed a custom map with controllable character

EXPERIENCE

August 2022

- Present

Data Engineering Intern

StoneX, Chicago, IL

- Build Microservices to work with existing infrastructure.
- Deploy modern data management tools to curate essential data sets, models, and processes, while identifying areas for process automation and further efficiencies.

February 2022

- Present

Undergraduate Researcher

DEPEND Group, Champaign, IL

- Use CARLA to simulate real life traffic situations and vehicle behaviors
- Model and improve autonomous vehicle algorithms

May 2022

- July 2022

IT Intern

Ecolab, Saint Paul, MN

- Built SQL queries in Snowflake to profile tables and develop key statistics on the quality and usability of the data.
- Integrated progress by utilizing Python, Alation and Snowflake Rest APIs.

August 2021

- December 2021

Undergraduate Teaching Assistant

University of Illinois at Urbana Champaign, Champaign, IL

- Hosted weekly office hours for ECE 385: Digital Systems Laboratory
- Guided students by answering questions and examining code

August 2020

- December 2020

Undergraduate Researcher

Illinois Geometry Lab, Champaign, IL

- Discovered and verified trivial congruences in colored partitions
- Generated numerical data with Mathematica