

ChenYang Huang

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Education

University of Illinois at Urbana-Champaign

GPA 3.74/4.00

Master of Science in Computer Engineering

May 2022

Bachelor of Science in Computer Engineering

May 2020

Work Experiences

Serionix, Inc.

Jun. 2019 – Aug. 2019

Web Developer Intern

Champaign, Illinois

- Designed and implemented an Express Node.js application to automate the customer order and supply chain management process
- Built an inventory tracking module with MongoDB and Node.js; maintained the Heroku server daily

Trustwave

Jan. 2019 – May. 2019

Software Engineer Intern

Chicago, Illinois

- Designed an architecture for a security compliance software for financing IoT endpoints; worked with WebSocket and message queues
- Applied SHA256 checksum to monitor the integrity of files with Apache NiFi / Minifi; worked with OpenSSL, Boost Library in C++
- Migrated Unix-based opensource software Apache Minifi to Microsoft Windows system with C-Make, fixed dependency issues

ECE Department, University of Illinois

Aug. 2018 – Current

Teaching Assistant, ECE 391 Computer Systems Engineering

Champaign / Chicago, Illinois

- Assisted 200+ students with programming projects; gave lectures and helped students debug their C code onsite

Research Experiences

National Center for Supercomputing Applications

Aug. 2019 – May 2020

Undergrad Researcher

Champaign, Illinois

- Enable advanced similarity search and anomaly detection for large-scale image datasets using Deep Learning models with Keras in Python
- Design a statistical method to disentangle the encoded variables and extract hidden image patterns in the latent space in an Autoencoder

IBM-Illinois Center for Cognitive Computing Research

Sep. 2019 – May 2020

Undergrad Researcher

Champaign, Illinois

- Build a data processing pipeline in Golang which reads batch raw research paper and generates analytics for an academic-stats web service

Technical Projects

Web-based Database Application

- Built an automobile information service web application with MongoDB, MySQL database, Node.js
- Created a web scraper in Python which scrapes car selling information online and automatically import data into our database
- Devised a Word2Vec word embedding script to cluster and extract key information from unorganized scraped text data

Offline Real-time Recommender System in Retail Stores

- Designed an AIoT system to make real-time recommendations for customers based on demographics, behavior and purchase history
- Established CV models to extract customer's demographics and behavior information from video stream

Nvidia CUDA Implementation of a Fast Convolution Layer in MxNet

- Implemented and optimized convolutional layers for a 2-layer CNN in CUDA C++

Wearable AIoT HealthCare Device with AWS Deployment

- Deployed a heart attack risk monitoring service with smart watch on AWS IoT platform with GreenGrass

More Skills and Tools

- C++, Python, Golang, Javascript, Clojure, SQL, Node.js, ReactJS, C++ Boost
- Git, TensorFlow, Keras, CMake, Docker, Jupyter Notebook, Linux, Wireshark, CUDA, PowerShell, Bash
- Agile/Scrum, CI/CD