

Steve Wang

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Education

Emory University

Atlanta, USA

B.S. IN MATHEMATICS & COMPUTER SCIENCE, GPA: 3.61/4.00

Sep. 2021 - May 2023 (Expected)

- Transferred from Bucknell University in 2021
- Coursework: Data Structures & Algorithms, Discrete Structures, Statistical Inference, Machine Learning, Database Systems, Linear Algebra, Numerical Analysis

Work & Research Experience

Graph Mining Group, Emory University

Atlanta, GA, USA

RESEARCH ASSISTANT

Oct. 2022 - Jan. 2023

- **Investigated and assessed** the compatibility of various knowledge graphs for integration with electronic health record (EHR) data
- Designed and implemented mapping functions to align medical entities in the MIMIC-III EHR dataset with the iBKG Biomedical Knowledge Graph, enhancing data organization and utilization
- Expanded expertise in health informatics through rigorous research and comprehensive data analysis

VeriSilicon Holdings Co., Ltd.

Shanghai, China

UNDERGRADUATE RESEARCHER

Jun. 2020 - Aug. 2020

- Identified computationally cost-effective human gesture recognition algorithms for integration into AI chips
- Fine-tuned a pre-trained TensorFlow model, achieving improved accuracy on the given dataset
- Gained hands-on experience with various machine learning and deep learning techniques

Projects & Competitions

Project: Prompt-Based Text-to-Meme Generation

RESEARCH & DEVELOPER

May 2022 - Jun. 2022

- Developed a deep learning framework for meme generation using user-provided prompts and topics for personalized meme creation
- Trained and fine-tuned text-generating neural network model to improve caption generation accuracy
- Produced a research paper detailing the development and results of the meme generation framework

Competition: Lyft Motion Prediction for Autonomous Vehicles

DEVELOPER

Aug. 2020 - Nov. 2020

- Collaborated with a three-person team to implement a ResNet and PyTorch-based machine learning pipeline for motion prediction in autonomous vehicles
- Achieved a ranking of 69 out of 937 teams (top 8%) on Kaggle
- Enhanced machine learning skills and gained experience with cloud-based GPU servers

Project: Multilayer Perceptron Stimulator

SCRUM MASTER & DEVELOPER

Apr. 2020 - May 2020

- Led a remote team using Git and Scrum to develop a Java application visualizing the feedforward neural network training process
- Conducted comprehensive unit testing with the JUnit framework to ensure program accuracy and reliability
- Improved leadership skills, software development techniques, and understanding of neural network concepts

Competition: RoboCupJunior Rescue Maze

TEAM LEADER & DEVELOPER

Apr 2020 - May 2020

- Designed and built single-chip microcomputer robots with custom acrylic plates and various sensors according to competition guidelines
- Programmed robots in C to navigate real-world mazes using sensor input for precise motion control
- Led a team of 5 to win first place in the national division of the 2018 RoboCupJunior Rescue Maze competition
- Enhanced robotics programming skills and knowledge of sensor integration

Skills

Programming Languages Java, JavaScript, Python, C, C++, SQL, RISC-V

Tools & Technologies Git, Linux, React, Tensorflow, Node.js, MATLAB, Excel, \LaTeX