Shuhan Gu

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EDUCATION BACKGROUND

Boston University MA, US
Bachelor of Arts candidate in Computer Science (Minor: Statistics) Sept. 2020- May 2024

- **Overall GPA**: 3.75/4.0
- **Honors:** Cum Laude and Dean's List in Spring 2021, Fall 2021, Spring 2022, Spring 2023, and Fall 2023
- **Skills:** Python, Java, C, OCaml, JavaScript, React.js, SQL, MongoDB, Computer Network, Pandas, Neutral Network

WORK EXPERIENCE

ShengShu Technology Beijing, China
AI Content Generation Intern Jun. 2024 – Present

- Gained hands-on experience with Stable Diffusion (SD), learnt the underlying concepts of SD and became proficient with Lora and ControlNet;
- Independently trained new Lora and ControlNet models, and successfully deployed them to an industry-level project;
- Learned to write efficient and accurate prompts, as well as fine-tune AI models to enhance content generation;
- Developed a pipeline using Diffusers to streamline the content generation process;
- Awarded a patent for my work on ancient fresco repair using AIGC technology.

Cambricon Beijing, China
Frontend Website Engineer Jun. 2023 – Aug. 2023

- Self-taught JavaScript in two weeks, using JavaScript to code a website to visualize certain Python files;
- Gained valuable insights on React and React Flow and successfully integrated React into a web page;
- Took charge of the whole front-end process, including font, layout, picture styles, and so on;
- Published the website on GitHub for more publicity.

InHope Pictures Beijing, China
Video Producer Intern Jun. 2021 – Aug. 2021

- Developed and filmed video content relating to food and restaurant reviews and completed post-production;
- Uploaded videos to various video websites and helped the company to boost publicity.

PROFESSIONAL EXPERIENCE

CASP lab, Boston University Sept. 2023 – Present
Supervisor: Assistant Professor Vasiliki Kalavri, Computer Science department, Boston University

- Transform the landscape of Graph Neural Networks (GNNs) by introducing modern storage APIs to train GNN models efficiently on exceptionally large graphs while simultaneously addressing the time bottleneck inherent in traditional sampling algorithms;
- By optimizing and minimizing the repetitive read and write operations between memory and disk, to open the door to groundbreaking applications across diverse domains.

Identifying Network Connection: Benign vs. DoS Attack - A Comparative Analysis of Binary Classifiers
Independent Research Supervisor: Prof. Alex Rogers, University of Oxford Jun. 2023 – Aug. 2023

- Gained insight into Bayesian probability, as well as various Binary classifiers and ROC curve;
- Delved into the efficacy of various binary classifiers in effectively distinguishing normal network connections from instances of 'DoS Attacks.';
- **Shuhan Gu**, independent author, ***Identifying Network Connection: Benign vs. DoS Attack - A Comparative Analysis of Binary Classifiers*** was accepted by International Conference on Machine Learning and Automation (CONF-MLA 2023) on Aug. 21, 2023.

Chess AI Project, Boston University Jan. 2023 – May. 2023

- Used Java to construct heuristic function of chess AI in a team of two by reading chess rules as well as chess algorithms, finally beat 90% of teams in the final tournament;
- Designed an agent by applying minimax algorithm to make decisions and make better predictions for optimistic move.

Mentor, Boston University Academy FIRST Robotics Team, "Overcooked" Sept. 2021 – May. 2024

- Recommended coping mechanisms, offered guidance to individualized support, and oversaw robotics building and robotics testing with a group of 15 high school students.