

ZEBIN GUO

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EDUCATION

Georgia Institute of Technology
Master's, Computer Science

August 2024 - July 2026

University of Hong Kong
Bachelor's, Computer Science
- First Class Honours

September 2020 - July 2024

PROFESSIONAL EXPERIENCE

Alibaba Group

Software Development Engineer in Test

Hangzhou, ZJ, China

June 2023 - August 2023

- Developed a test case automation platform using React-based Ant framework at the front end, interface capturing at the back-end using Spring, and MyBatis for management
- Participated in the front-end development of the mobile Taobao automated competition platform and version comparison platform, using React-based Ice3 framework and Ant design components for development
- Wrote user cases with Kotlin using DinamicX framework developed by Tmall Group, found and reported 10+ defects in the container frame.

Shining 3D Techonology

Software Engineer Assistant

Hangzhou, ZJ, China

June 2022 - August 2022

- Completed the visualization platforms for papers and course exercises in geometry using Qt visual library and C++, and performed demo development on topics like surface parameterization and reconstruction
- Realized real-time interaction and off-screen rendering for each use case, and provided text and video tutorials
- Participated in the development of automatic tooth alignment software by C++ to realize functions of adaptive acquisition of multiple bracket parameters to generate a coordinate system and convert it into an oral space coordinate system.

PROJECTS & OUTSIDE EXPERIENCE

Physical-based Character Animation in Fluids - [Link to project](#)

Team Member

Hong Kong S.A.R.

September 2023 - April 2024

- Employed a differentiable world model to learn simulation of fluid-rigid coupling based on stream function method, and then utilize back-propagation optimization to acquire control policy.
- Utilized a supervised-learning approach using neural networks and autoencoders to predict future states from image inputs

American Collegiate Mathematical Contest in Modeling - [Link to project](#)

Leader of H Award Team

Hong Kong S.A.R.

September 2022 - February 2023

- Optimized and used the population competition model and mathematical methods to predict and analyze the short-term and long-term growth trends of different types of vegetation under various soil, pressure, rainfall, and other conditions in the five regions, and add multiple factors such as pollution and soil erosion to optimize the prediction process.

Research on the ability of the ZeroGen Language Model Based on Zero-Shot Learning in the Direction of Evaluation in HKU NLP Lab

Research Assistant

September 2022 - December 2022

- Investigated the performance of the PLM fine-tuning language model ZeroGen developed by HKU NLP Lab in the direction of Question Answering, compared it horizontally with other evaluation metrics (Mauve, etc.) to explore the ability of the language model in the direction of evaluation

Research on Stock Price Predictions Using Machine Learning Models - [Link to project](#)

Researcher

Remote

January 2022 - January 2022

- Published paper as independent first author.

SKILLS

Skills: C/C++, React.js, Python, Java, JavaScript