

# Shuren Gabriel Yu

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## EDUCATION

### Tsinghua University

B.Eng. in Software Engineering

Beijing, China

Sep 2022 - Jun 2026 (Expected)

- **GPA:** 3.6/4.0 (3.83 in junior year)

- **Key Courses:** Artificial Intelligence, Database Systems, Computer Architecture, Probability & Statistics

- **Research Interests:** Biomedical AI, Graph Neural Networks, and Computational Neuroscience

## RESEARCH EXPERIENCE

### The Intelligent Media and Cognition Laboratory, Tsinghua University

Beijing, China

Undergraduate Researcher | Advisor: Prof. Gao Yue

Aug 2024 - Present

- Developing HyperPriv-EPN, a self-supervised model for survival and grading prediction in ependymoma
- Collaborating with Beijing Tiantan Hospital on multi-modal MRI and clinical data from 300+ patients
- Built text-feature pipeline using large language models to extract sparse and dense embeddings
- Implementing self-supervised and hypergraph modules under the LUPI paradigm
- Benchmarking DeepHypergraph against baseline models (SVM, Random Forest, GNN)

### Computer Vision Group, Tsinghua University

Beijing, China

Student Research Trainee | Advisor: Prof. Liu Yushen

Apr 2024 - Jul 2024

- Reviewed papers on 3D scene reconstruction and view synthesis methods (NeRF, Gaussian Splatting)
- Reproduced key experiments in PyTorch to understand neural rendering frameworks

### Network Systems Group, Tsinghua University

Beijing, China

Student Research Trainee | Advisor: Prof. Li Zhenhua

July 2023 - Feb 2024

- Developed user interface for a bandwidth measurement tool in collaboration with Huawei researchers
- Integrated frontend components with underlying TCP-based testing modules built by the research team
- Presented the project at the Tsinghua Innovation Challenge Cup, recognized as a group finalist

## INTERNSHIP EXPERIENCE

### Kuaishou Technology | Leading short-video platform with 300M+ daily users

Beijing, China

Software Engineering Intern

Jun 2025 - Aug 2025

- Designed and built a pipeline for real-time AI-generated livestreams capable of interactive response
- Fine-tuned speech-driven facial animation frameworks (e.g. Wav2Lip) for realistic lip-sync
- Integrated text-to-speech, audio generation, and video synthesis modules into a unified real-time system
- Work led to successful internal deployment testing by Kuaishou's Kling AI group

## PROJECT EXPERIENCE

### RunningMate | Software Engineering Course Project

Beijing, China

Team Lead

Sep 2024 - Feb 2025

- Led a four-member team to design and build an app for real-time running and social activity tracking
- Implemented GPS-based route sharing and live location features for collaborative marathon tracking
- Won 2nd Prize at the National Software Innovation Contest (North China Division)

## AWARDS & HONORS

- Tsinghua University Technology and Innovation Scholarship – *Academic Excellence*

Oct 2025

- Ministry of Education Student Scholarship (3rd Class) – *Twice awarded*

2024 & 2025

- Tsinghua University 3D Design & Innovation Competition – *Grand Prize (Top 1%)*

Apr 2025

- National Software Innovation Competition (North China Division) – *2nd Prize*

Feb 2025

- Tsinghua University Innovation Challenge Cup – *Project Finalist*

Feb 2024

## SKILLS

- **Programming:** Python (PyTorch, Pandas, NumPy, SQL), C++

- **Tools & Frameworks:** Linux, Git, Matplotlib, Scikit-learn

- **Languages:** English (native), Mandarin (native), Cantonese (conversational)

## ADDITIONAL INFORMATION

- **GRE Score:** 162V / 170Q / 6.0AWA

- **Interests:** running, swimming, art, cuisine, mechanical watches