

Qingguang(Jasper) Zeng

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EDUCATION

Stony Brook University, Stonybrook, NY **Jan 2022 - May 2024 Expected**

Bachelor of Science (B.S): Computer Science

Bachelor of Science (B.S): Applied Mathematics & Statistics

Cumulative GPA: 3.77/4.00 Honor: Dean's List (2022, 2023), Tau Beta Pi Member

Relevant coursework: System Fundamentals, Analysis of Algorithms, Intro to Theory of Computation, Software Engineering, Computer Network, Nature Language Processing, Machine Learning

Queens College, Flushing, NY

Jul 2020 - Dec 2021

Bachelor of Arts (B.A): Computer Science

Cumulative GPA: 3.98 /4.00 Honor: Presidential Scholars (2021)

SKILLS

Programming/Scripting Languages: Java, Python, R, C/C++, JavaScript, HTML, CSS, TeX, Ocaml

Package/ Library/Platform/ Environment: Git, PyTorch, Node.js, React, MongoDB, Kubernetes

EXPERIENCE

NSF REU Participant (Research Assistant) | Stony Brook University File Storage Lab **Aug 2023 – Current**

- Mentor: Prof. Erez Zadok, M. Alex Merenstein
- Actively participating in a project to predict GPU application performance and detect anomalies within a **Docker** and **Kubernetes**-based GPU cluster environment, leveraging **Machine Learning** techniques.
- Collaborating within a multidisciplinary team to develop and implement algorithms and strategies for these objectives, aiming to enhance GPU cluster monitoring and optimization.

Student Technician | Division of Information Technology at Stony Brook University **May 2022 – Current**

- Managed and maintained 5+ computer labs with 300+ computers, consistently configuring, reimaging, and fixing over 18 computers per week while working over 15 hours per week.
- Provided assistance to a diverse user base, including students, professors, alumni, and faculty, in effectively utilizing the university's public computer labs and study spaces.
- Skilled in **troubleshooting** diverse basic hardware and software issues, optimizing computer performance, resolving software installations, configurations, and printer-related challenges.

Undergraduate Teaching Assistant | Stony Brook University

Jun 2023 - Aug 2023

- Assisted in organizing instructional materials for a **Data Structures** course with 100+ students.
- Collaborated with fellow teaching assistants to conduct 80-minute recitation sections, demonstrating and reviewing key data structure concepts, also assisting with project assignments (2 sessions per week).
- Graded assignments and provided constructive feedback to students.
- Conducted 6 hours of office hours per week to offer additional academic support and address student inquiries.

PROJECTS

Ivy | Unify.ai, London, GB (Remote)

Aug 2023 - Current

Participate in the development of the open-source machine learning tool ivy which is both an ML transpiler and a framework, currently supporting JAX, TensorFlow, PyTorch and Numpy. It unifies all ML frameworks.

sfmm | System Fundamentals Course Work

Mar2023 - Apr2023

Created a C-based dynamic memory allocator for x86-64 architecture with efficient coalescing, alignment, and LIFO management.