Qiutong Men
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EDUCATION

- **New York University**
  PhD, Computer Science, Supervisor: Aurojit Panda. — *Sept. 2024 – Now*

- **New York University Shanghai**
  BS (with Dean's Award, top-1 in the department), Computer Science; Minor in Maths; GPA: 3.84/4. — *Sept. 2020 – Dec. 2023*

- **New York University**
  Visiting — *Sept. 2022 – Aug. 2023*

PUBLICATION

- **Heimdall: Towards Risk-Aware Network Management Outsourcing** — NDSS '25
  *Y. Wang, **Q. Men**, Y. Chen, J. Liu, G. Chen, Y. Zhang, G. Liu, V. Sekar*

- **ConfMask: Enabling Privacy-Preserving Configuration Sharing via Anonymization** — SIGCOMM '24
  *Y. Wang, **Q. Men**, Y. Xiao, Y. Chen, G. Liu*

- **[Poster] FTMesh: Efficient Fault Tolerance for Interactive Applications on Service Mesh** — SOSP '23 SRC
  Q. Men. Advisors: G. Liu, A. Panda.

PROFESSIONAL EXPERIENCE

- **ByteDance** — Feb. 2024 - Aug. 2024
  AML - Software R&D Engineer
  - Working on Machine Learning Platform and the Ark (Model-as-a-Service platform) in Volcengine.
  - Pushing the performance improvement and standardization of the observability infrastructure of both platforms. Responsible for the design, and implementation of the performance dashboard and alerting system in the model fine-tuning business.
  - Pushing the design and implementation of the hyper-parameter tuning module in the model fine-tuning business. Contributing to the storage and transmission optimization of fine-tuning procedure.
  - Familiar with Kubernetes ecosystem and Prometheus ecosystem. Experience with NVIDIA DCGM and Megatron Framework.

- **Privoce, Inc.** — June. 2021 - Sept. 2021
  Fullstack Engineer Intern
  - Lead the development of a social network Chrome extension product from scratch, including React-based front-end, SpringBoot-based back-end, and Neo4j graph database.

RESEARCH EXPERIENCE

- **Efficient Fault Tolerance for Microservice-based Interactive Applications** — May. 2023 - Jan. 2024
  Advisors: Aurojit Panda, Guyue Liu
  - Conduct motivational performance investigations of open-source applications.
  - Design and implement the Sidecar-based synchronization and transparent re-routing mechanism on top of Istio/Envoy.
  - Preliminary result accepted as poster in SOSP '23 SRC, preparing for full paper submission.

- **Privacy-Preserving Configuration Sharing via Anonymization** — Dec. 2022 - May. 2023
  Advisor: Guyue Liu
  - Improve the time complexity of anonymization algorithm leveraging routing protocol properties.
  - Participate in the implementation of the end-to-end network configuration anonymization system.
  - Lead the evaluation of performance and effectiveness of our system.
  - Work gets published at SIGCOMM 2024.

- **Risk-Aware Network Management Outsourcing** — Sept. 2022 - Oct. 2023
  Advisor: Guyue Liu
  - Implement a proof-of-concept reference monitor system for network management.
  - Implement a easily scalable GNS3 testbed for pilot study of the system.
  - Work gets published at NDSS 2025.

- **eBPF-based Container Privilege Monitoring and Management Tool** — Apr. 2022 - Aug. 2022
  - Leverage the raw tracepoint *syscall_enter* in Linux kernel to efficiently filter all syscalls, instead of hooking separately.
  - Design and implement the end-to-end system using BPF-C and Rust with Docker. Consider container lifecycle to avoid record loss. Support exporing SECCOMP configuration.
  - Conduct performance and effectiveness evaluation, observe that 30% - 60% syscalls privilege untouched during testing execution.

Award & Scholarship

Dean's Award in Computer Science, Data Science and Engineering(1/100 per year)	2024
NYU Shanghai Excellent Graduate	2024
NYU Shanghai Recognition Award (with $5500 scholarship)	2023
NYU Shanghai Dean's List for Academic Year	2021, 2022, 2023
NYU Shanghai Dean's Undergraduate Research Fund (with grant of $1000)	2021, 2022
China System Capability Contest in OS Feature Designing - Final Round, Excellence Award	2022
COMAP Mathematical Contest in Modeling Honorable Mention	2022
3rd ByteDance Youth Camp Backend Track Advanced Group - Team of Innovation	2022
Xiaomi Online Judge - Excellent Volunteer	2018
National Olympics in Informatics Winter Camp - 3rd Prize	2019
National Olympics in Informatics in Provinces - 1st Prize	2018
Xiaomi National Collegiate Programming Contest - Bronze Medal	2018