

Michael Xu

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EDUCATION

McGill University

Aug 2023 – Expected Dec 2024

- *Master of Science in Computer Science – GPA: 4.00/4.00* Montreal, QC
 - Coursework: Machine Learning, Natural Language Processing, Intelligent Systems
 - Selected as top 3% to receive a reference letter in a 300-student ML course from Dr. Prémont-Schwarz

University of San Francisco

Jan 2020 – May 2023

- *Bachelor of Science in Data Science – GPA: 3.90/4.00* San Francisco, CA
 - Coursework: Software Dev Life Cycle, Artificial Intelligence, Cloud Computing
 - Awarded Most Outstanding Graduating Student in Data Science (2023)

SKILLS

- **Languages:** Python, Java, R, TypeScript, Bash, CMD
- **Tools & Libraries:** AWS, Docker, Kubernetes, Terraform, Git, PyTorch, Scikit-learn, Numpy, Pandas
- **Databases:** MongoDB, MySQL, PostgreSQL, Redis

ACADEMIC PROJECTS

TinyReviews

Nov 2023 – Dec 2023

- Transformed 27 million raw reviews into a refined corpus of 1 million entries, enabling GPT Neo models (without pre-trained weights) to produce coherent sentences within hours of training on a single V100 GPU
- Benchmarked newly trained Language Models against GPT-3.5 through prompt engineering, showcasing their comparable generation quality in aspects such as grammar and creativity

Autodeployer

Jan 2023 – May 2023

- Implemented core functionalities to provision an EKS (Elastic Kubernetes Service) cluster using Terraform and to deploy user applications (frontend, backend, and database)
- Designed a user-centric interface enabling customization of EKS settings such as desired worker nodes
- Engineered automated provisioning of persistent volumes based on user specifications, enhancing deployment versatility

WORK EXPERIENCE

Hangzhou Anheng Information Technology Co.

Sep 2019 – Dec 2019

Software Engineer Intern

Hangzhou, China

- Crafted an internal tool that uses the multithreading technique to transfer terabytes of data between two data centers, doubling the processing speed compared to before
- Developed file monitoring and uploading services that operate on multiple machines to autonomously track log files, thereby improving data security and enabling early detection of issues
- Served as a trusted technical advisor to external strategic partners, delivering practical guidance and troubleshooting assistance to ensure packet loss rate below 1%

Hangzhou Anbang Technology Co.

Oct 2018 – Dec 2018

Software Engineer Intern

Hangzhou, China

- Formulated a statistics microservice that produces real-time user activity reports in a mobile game with no concurrency issues, improving data gathering latency from seconds to within milliseconds
- Located a performance issue on the database layer and optimized MongoDB by adding a Compound Index, reducing critical query's response time from 2s to milliseconds in 1.2 million records
- Debugged unfamiliar code and offered reliable solutions under time pressure, on average resulting in a 10-hour decrease in project delivery time

ACADEMIC EXPERIENCE

University of San Francisco

Sep 2020 – May 2022

Teaching Assistant

San Francisco, CA

- Coached students in linear algebra and multivariable calculus through weekly sessions, simplifying concepts like countable and uncountable sets, leading to my rehiring in subsequent semesters

Polymath REU

Jun 2021 – Aug 2021

Undergraduate Researcher

New York, NY (Remote)

- Produced organized proofs about a finite arrangement's lower and upper bounds under restrictions