YULONG LIN

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EDUCATION

University of Cambridge Bachelors and Masters, Computer Science *Graduated 2023*

- Jardine Scholarship, selectively granted to 12 students across Asia (~£200k). Also offered NUS Global Merit Scholarship
- First Class with Distinction (Starred First), awarded to 0-2 students out of 130 in the cohort for consistently high scores

WORK EXPERIENCE

ML Engineering Intern **Cohere** *Aug-Dec 2022*

- Increased key metric for generation and summarisation large language models (LLMs) by 5-10x by introducing fundamental architectural change to generation models that was adopted across production models. This involved preprocessing data, and designing, implementing, and evaluating model architecture changes
- Implemented a new type of evaluation in internal tooling to measure new capabilities after researching current methods
- Worked in a distributed team spanning the US, Europe and Asia by working on two projects and proactively communicating

Research Intern **University of California, Berkeley** *Jun-Sep 2021*

- Led the development of an image classification model without confident errors on selected classes for unrestricted adversarial examples (images manipulated without restrictions), by designing and implementing experiments
- Learnt to juggle multiple streams of a project simultaneously as experiments ran for days

Student Researcher **University of Cambridge** *Oct 2020–Jun 2021*

- Thesis ranked top 5 in cohort by creating a dynamic graph dataset that overcomes limitations of current datasets
- Independently managed Terabytes of unstructured data with parallel data processing, comprehensive testing via continuous integration, good code style and data/model versioning
- Advanced the state-of-the-art in dynamic link prediction by 3% in AP and AUROC

Software Engineering Intern **Amazon Web Services (AWS)** *Jun-Sep 2020*

- Reduced lead time for supporting open-source versions from weeks to days (a key team goal) through automation and tests
- Worked across ~20 code repositories to design and implement changes, such as build logic involving multiple repositories
- Spearheaded project planning (design doc and sprint issues) and learnt various technologies (e.g. several AWS services, Ruby, Bash, build tools), while in a significantly different timezone from all team members

Software Engineering Intern **National University of Singapore** *Jul-Sep 2019*

- Improved medical experiences for over 100k patients by creating a dashboard for SingHealth to visualise diabetes patient data, predict complication risks and understand which parts of each patient's history led to the predictions

Software Engineering Intern **Agency for Science, Technology and Research (A*STAR)** *Jun-Sep 2018*

- Developed software to preprocess multimodal data and predict patient outcomes with time-series models
- Created software IP for 3 patents filed by A*STAR, among Reuters' top 5 Most Innovative Research Institutions

PROJECTS

College Webmaster

- Developed a website that has accumulated over 20,000 monthly page visits, including an anonymised time-allocated room balloting system supporting proxy balloting and room reviews
- Achieved an 83% "exceeds expectations" rating for the room ballot, by implementing comprehensive filtering options for room listings and detailed room reviews highlighting the key aspects students are interested in

Somalia Famine Prediction

- Built a web app for aid workers to simulate interventions across Somalia and determine their effectiveness
- Awarded the *JPMorgan Better Future Award* by representatives from companies like Google and Microsoft

Amazon Internal Events

- Top 5 in company-wide virtual car race, by teaching myself basic Deep Reinforcement Learning
- Developed a smart flashcard tool for Amazon interns preloaded with flashcards, intelligent scheduling, hints and explanations accessed all by talking to Alexa, through building Lambda/S3 back-end and NLP models for Alexa skill

SKILLS AND INTERESTS

- Programming: Python, Java, C++, JavaScript, PHP, SQL, C, SML, Ruby
- Other skills: Deep learning (PyTorch/TensorFlow/JAX), Cloud (AWS, GCP), Shell scripting, CI/CD (CircleCI), Infrastructure as Code (CloudFormation, Ansible), Microservices (Docker, AWS Lambda, AWS Step Functions), Monitoring and Logging (CloudWatch), Version Control, Build tools (Gradle), Databases (MySQL, DynamoDB, S3), Task scheduling (cron)
- Extracurriculars: Homeless aid (e.g. food distribution, befriending), Writing (tech/policy editor), Bouldering, Badminton (captain)