

Pratyush More

pratyushmore.com | linkedin.com/in/pratyushmore | github.com/pratyushmore
pratyushmore96@gmail.com | +44 787-823-4646 | pratyush.more@u.yale-nus.edu.sg

EDUCATION

YALE-NUS COLLEGE

BS IN MATHEMATICAL,
COMPUTATIONAL, & STATISTICAL
SCIENCES

(Magna Cum Laude)

(3% acceptance rate)

Grad. May 2018 | Singapore

Cum. GPA: 4.78 / 5.00

Major GPA: 5.00 / 5.00

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VISITING UNDERGRADUATE:

COMPUTER SCIENCE

Feb - May 2017 | Boston, MA, USA

GPA: 4.80 / 5.00

COURSEWORK

Integrated Science 2: Computer Science

(Intro to CS via Functional Programming; Peer Tutor)

Fundamentals of Programming

Advanced Algorithms & Data Structures

Software Engineering

Computer Vision

Machine Learning (Peer Tutor)

Network & Computer Security

Multicore Programming

Logic in Computer Science

Programming Language Design

Quantitative Reasoning

Statistical Programming

Statistical Computing

Entrepreneurship Lab

Early Stage Private Equity Investing

SKILLS

PROGRAMMING

Over 10000 lines:

Java • Go • Python • C

Over 3000 lines:

C++ • OCaml • R

Over 1000 lines:

Shell • Javascript • CSS

SQL • HTML

OTHER EXPERTISE

Mentoring & Leadership

Tensorflow • gRPC

Microservices • Protobufs

Android Platform • Open-Source

Software

EXPERIENCE

GOOGLE | SOFTWARE ENGINEER/TECH LEAD

Oct 2019 - Present | London, UK | Munich, Germany

Android Open Source Project (AOSP)

- Delivered Android OS support for per-app languages, a major Android feature. Was demoed at Google I/O, covered by 20+ publications (e.g. [Android Police](#)), and integrated by major apps (e.g. Google Maps, LinkedIn, Zomato).
- Led a cross-continental team of 4 engineers, and influenced a total of 10, to build a platform feature going out to XB+ devices.
- Drove alignment with 10+ cross-functional stakeholders/leaders from engineering, product, and UX.
- Worked across 7 systems, addressing public API & permission design, integrating open-source & proprietary systems, concurrency & lock contention, and dynamic APK splits. Mostly in Java.
- Gave a talk at [Droidcon London 2022](#) on multilingualism in Android.

Google Identity

- Built next-gen Identity APIs to access semantic views on Google accounts. Used by most major Google products including Search, Maps & YouTube.
- Developed distributed systems handling XXM+ QPS, working in Java, C++.
- Designed & deployed a real-time notification system for account changes.
- Enabled 500+ Google-wide clients to define custom views on accounts via a build-time code-generator.

GRAB | SOFTWARE ENGINEER, RECOMMENDATION

Jul 2018 - Sept 2019 | Singapore

Grab is South East Asia's largest ride-hailing platform with over 100 million users.

- Created an A/B testable distributed ML recommender system to personalise Grab's homepage content. Latency less than 50ms; mostly in Golang.
- Built a real-time data pipeline to incorporate user interactions on Grab's app. Feedback loop of less than 10 seconds.
- Optimized and productionized a collaborative filtering ML model to use 75% less memory through quantization and sparse indexing.

QUANTCAST | SOFTWARE ENGINEERING INTERN

May 2017 - Aug 2017 | May 2016 - Jul 2016 | Singapore

- Designed & implemented an extensible, multithreaded notification service.
- Increased fault-tolerance through database persistence and a delayed retry.
- Reduced latency of thirdparty advertisement processing by more than 20%, through HTTP batching and a time-based cache system.

RESEARCH

FLOW BASED GENERATION OF DENSITY-EQUALISING MAPS |

RESEARCHER

Feb 2016 - Oct 2018 | Singapore

- Co-authored a paper on a novel algorithm producing density-equalising maps.
- Improved on state-of-the-art techniques by being 60 times faster.
- Published in PNAS: the second-most cited journal in the world. View paper: doi.org/10.1073/pnas.1712674115.
- Open-sourced the software: github.com/Flow-Based-Cartograms/go_cart.