

Raman Yachi Mathur

Student

📍 TOKYO / Philadelphia

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🐙 github.com/r-ym

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BIO

Japanese-Indian passionate about tech.
Intuitive and eager to learn.
Interested in ML, OSS & design.

TECHNICAL SKILLS

C	Python
SQL	Rust
L ^A T _E X	Git
AutoCAD	VHDL

EXPERIENCE

- Nov '19 - Mar '20 **Software engineering intern** Elyah, Tokyo
Developed custom Rust linear-algebra libraries("crates") for ML and QC simulation purposes.
Designed and implemented an algorithm to compute unitary matrices for N-bit-controlled quantum operations.
Rust / Python / WebAssembly
- Sep '18 - Apr '19 **R&D co-op** Johnson Matthey, Pennsylvania
Developed novel engine control catalysts via fundamental research and tailored synthesis methods.
Collaborated with scientists from the Americas, EU, Japan and India on internal and external projects.
Microsoft Office suite / LabVIEW
- Apr '17 - Sep '17 **International Research Scholar** University of Sussex, UK
Fabricated novel perovskite solar cells to study how materials such as Zinc Oxide nanorods and graphene-oxide / graphene composites can be used to improve photoconversion efficiency.
Constructed a custom spin-coater with an Arduino for use in a space-restricted glove box. GUI for spin speed, ramp duration etc. developed via Visual Basic.
C / Visual Basic / AutoCAD

EDUCATION

- 2016 - 2021 **B.S Computer Engineering** Drexel University, Philadelphia
Recipient of A.J Drexel Scholarship
Japanese minor
Club soccer
- 2012 - 2014 **US diploma w/ high honours** Woodstock School, India
AP Scholar with Distinction
ACT w/ writing: 34/36
Varsity Soccer

LANGUAGES

English - native
Japanese - native
Hindi - native

HOBBIES

Reading, cooking, football
weightlifting, writing

CITIZENSHIP

Japan / India dual citizen with USA
work authorisation