

Raman Yachi Mathur

Student

📍 TOKYO / Philadelphia

🌐 r-ym.github.io

🐙 github.com/r-ym

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BIO

Japanese-Indian passionate about tech.
Eager and quick to learn. Contextually intuitive.
Interested in ML, quantum computing & Art+Design.

TECHNICAL SKILLS

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

EXPERIENCE

- Nov '19 - Mar '20 **Software engineering intern** **Elyah, Tokyo**
Contributed to a linear-algebra back-end. Fitted to simulate quantum circuits and algorithms. Written in Rust, deployed via WebAssembly.
Designed and implemented a proprietary algorithm that computes unitary matrices for N-bit-controlled quantum operations. Written in Rust.
Rust / Python / WebAssembly
- Sep '18 - Apr '19 **R&D Intern** **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 **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.
Arduino C / Verilog / VHDL

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