Raman Yachi Mathur

♀ TOKYO / Philadelphia

github.com/r-ym

Student

r-ym.github.io

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BIO TECHNICAL SKILLS

Japanese-Indian passionate about tech.CPythonIntuitive and eager to learn.SQLRustInterested in ML, OSS & design.LATEXGitAutoCADVHDL

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	HOBBIES	CITIZENSHIP

English - native Japanese - native Hindi - native Reading, cooking, football weightlifting, writing

Japan / India dual citizen with USA work authorisation