Raman Yachi Mathur

Student

TOKYO / Philadelphia
r-ym.github.io
github.com/r-ym
ramanyachi@gmail.com

BIO

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

TECHNICAL SKILLS

C	Python
SQL	Rust
Go	Git
AutoCAD	VHDL

EXPERIENCE

Nov '19 - Mar '20 **Software engineering intern** — **Elyah, Tokyo**

Developed custom Rust linear-algebra libraries for ML and quantum algorithm simulations, along with robust testing framework for all use cases. Done in an Agile software development environment.

Worked with the team ground-up to develop and deploy Elyah's quantum computing simulator as a SaaS product. Contributed extensively to discussions on growth and marketing.

`Rust / Python / JavaScript`

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