Raman Yachi Mathur

Student

TOKYO / Philadelphia
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BIO

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

TECHNICAL SKILLS

Go
Python
Rust
PyTorch/Lightning
SciPy
Docker+Git

LANGUAGES

English - native
Japanese - native
Hindi - native

RELEVANT COURSEWORK

CS260 Data Structures
Practical Deep Learning – fast.ai
ENGR231 Linear Engineering Systems
Full Stack Deep Learning – Berkeley EECS

EXPERIENCE

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

Developed custom Rust linear-algebra libraries for quantum circuit 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 / 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.

`Excel Macros / 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