

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.

LANGUAGES

English - native
Japanese - fluent
Hindi - native

TECHNICAL SKILLS

Python PyTorch
Rust TensorFlow
C++ ROS

RELEVANT COURSEWORK

CS260 Data Structures
Practical Deep Learning – fast.ai
ENGR231 Linear Engineering Systems

EXPERIENCE

- June '21 - Now **Machine learning intern** **CoLab Co., Kanagawa**
Developing solutions to novel factory automation problems using ROS. Extensively leverage deep learning methods, and optimize via NVIDIA SDKs.
Volunteered to orchestrate the R&D team's transition to Docker to a marked upturn in iteration speed across projects. Did so by creating a flexible ROS-container pipeline that provides granular control at project level, while being consistent at scale.
ROS / CUDA / PyTorch / OpenCV
- 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.
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
- 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