

# Raman Yachi Mathur

Student

📍 TOKYO / Philadelphia

🌐 r-ym.net

🔗 [github.com/r-ym](https://github.com/r-ym)

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## BIO

Japanese-Indian passionate about tech.  
Interested in innovative software, OSS & design.

## LANGUAGES

**English** - native  
**Japanese** - fluent  
**Hindi** - native

## TECHNICAL SKILLS

Python                      PyTorch  
Rust                         Pandas  
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 tooling.  
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 Toolkit / 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