

# Maya Ravichandran

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## Education

### Rutgers University–New Brunswick

(Sept. 2017 – May 2021)

- B.S. in Computer Science; GPA: 4.00/4.00
- Honors College; Presidential Scholar; SAT: 2400/2400

## Experience

### Research Intern, NCI, National Institutes of Health – Bethesda, MD

(May 2018 – Present)

- Identified structural variants (SVs) in osteosarcoma genome sequences as targets for further research
- Improved accuracy of probabilistic framework for SV discovery by eliminating false positives utilizing results from logistic regression model

### Software Engineering Intern, Commvault – Tinton Falls, NJ

(July 2018 – August 2018)

- Improved system availability for customers through intelligent scheduling of activities using ARIMA models
- Created Excel/CSV reports and inputted them into prediction models using C++

### Software Engineering Intern, Commvault – Tinton Falls, NJ

(June 2017 – August 2017)

- Designed and developed a dynamic web interface to improve CI/CD workflow for in-house software development
- Performed full-stack development using Angular, Bootstrap, HTML, CSS, Java, SQL, and MS SQL Server

### Research Intern, Princeton University – Princeton, NJ

(July 2016 – January 2017)

- Investigated the impact of sulfate attack on the atomic structure of eco-friendly alkali-activated cement
- Analyzed eight million data points from Advanced Photon Source particle accelerator at Argonne National Laboratory
- Identified atomic bonds using Fourier transforms and X-Ray Pair Distribution Function analysis
- Presented findings in multiple venues locally and internationally

## Leadership

### Senator, University Senate, Rutgers University System

(April 2018 – Present)

- Representing ~20,000 School of Arts and Sciences students to governing body of administrators, faculty, and students
- Chairing undergraduate-alumni relations committee to create a comprehensive directory of 500,000 Rutgers alumni

### Vice President / Education Director, Rutgers Computer Science Organization

(April 2018 – Present)

- Spearheaded 1:1 mentorship program to match upperclassmen with > 130 underclassmen
  - Improved mentor-mentee engagement from little to none during previous year to ~70% of pairs communicating at least once per week in current year, utilizing new pairing process based on shared rapport and interests
- Leading team to source speakers and review presentation content for weekly “Hacker Hour” technology lecture series by industry representatives, alumni, professors, and students, with ~35 students in attendance per event

### President, Rutgers Venture Capital Club

(June 2018 – Present)

- Leading design and implementation of venture capitalist educational speaker series, networking events, and field trips
- Grew event attendance from ~10 to ~50 through building partnerships with other departments/organizations and enhancing marketing efforts

### Analyst, Rutgers Student Managed Fund (manages \$170,000)

(October 2017 – Present)

- Recommending stocks by performing valuation, financial statements analysis, and industry analysis
- Recommended Pacira Pharmaceuticals (PCRX) stock that was purchased by fund and generated 37% return

## Awards/Honors

- Finalist, Intel International Science and Engineering Fair (ISEF) (May 2017)
- US Congressional Award Gold Medal (May 2016)
- Violin: Performed at Carnegie Hall and Lincoln Center (March & April 2014)
- hackBCA III hackathon: Most Creative Beginner Hack award (April 2016)

## Skills

- **Coding:** Python, R, Java, JavaScript, C++, C, TypeScript, Angular, HTML, CSS, Bootstrap, SQL
- **Skills:** Excel, Autodesk Inventor, Integrative Genomics Viewer
- **Competencies:** Financial analysis, machine learning, statistical analysis, CAD, Spanish (advanced proficiency)