

Maya Ravichandran

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Education

Rutgers University - Honors College – New Brunswick, NJ

(Sept. 2017 – May 2021)

- B.S. in Computer Science
- Presidential Scholar; GPA: 4.00/4.00

High Technology High School – Lincroft, NJ

(Sept. 2013 – June 2017)

- #1 STEM high school in the country as ranked by *U.S. News*; SAT: 2400/2400

Work Experience

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

(May 2018 – Present)

- Identified genetic structural variants (SVs) in NGS of osteosarcoma tumors to better understand cancer mechanisms
- Improved accuracy of a probabilistic framework for SV discovery using multiple signals across multiple samples

Software Engineering Intern, Commvault – Tinton Falls, NJ

(July 2018 – August 2018)

- Improved system availability for customers through intelligent scheduling of activities using ARIMA models
- Designed, developed, tested, and implemented prediction models and Excel/CSV reports 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 cloud storage
- 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 in Argonne National Laboratory
- Identified atomic bonds using Fourier transforms and X-Ray Pair Distribution Function analysis
- Presented findings in multiple venues

Leadership

(Sept. 2017 – Present)

- **Senator, University Senate, Rutgers University System**
 - Represent 20,000 School of Arts and Sciences undergraduate students
- **President, Rutgers Venture Capital Club**
 - Lead the design and implementation of venture capitalist educational speaker series and networking events
- **Vice President, Undergraduate Student Alliance of Computer Scientists**
 - Spearhead 1:1 mentorship program to match upperclassmen with > 130 underclassmen
 - Oversee and implement “Hacker Hour” technology lecture series by industry experts, alumni, and students
 - Collected student feedback on computer science curriculum and presented to department chair
- **Junior Analyst, Rutgers Student Managed Fund** (manages \$170,000)
 - Recommend stocks by performing valuation, financial statements analysis, and industry analysis
- **Residential Student Leader, Rutgers University Honors College**
 - Mentor and build community for upperclassmen Honors College students in residence halls
 - Design and execute events meeting Honors College mission and educational goals

Awards/Honors

- Finalist, Intel International Science and Engineering Fair (ISEF) (May 2017)
- US Congressional Award Gold Medal (May 2016)
- National AP Scholar (July 2016)
- Violin: Performed in Carnegie Hall (March 2014) and Lincoln Center (April 2014)
- hackBCA III hackathon: Most Creative Beginner Hack award (April 2016) – for “Komodo,” a social network app built with Python, Flask, HTML/CSS, and Twilio API to motivate users to read more

Skills and Interests

- **Coding:** Python, R, Java, JavaScript, C++, TypeScript, HTML, CSS, Bootstrap, SQL, Git/GitHub
- **Skills:** Excel, Autodesk Inventor, Integrative Genomics Viewer
- **Competencies:** Financial analysis, machine learning, statistical analysis, CAD
- **Languages:** Spanish (advanced proficiency)
- **Interests:** Birding, hiking, kayaking, music, violin, art history