

# Varun Rajaram

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## SKILLS

### PROGRAMMING

Experienced with:

Java • Python

Exposure to:

Matlab • R • Tensorflow

• OpenCV • Arduino •  $\LaTeX$

## AWARDS

### Jerry R. Junkins Memorial Scholarship Award

Recipient of scholarship awarded by Texas Instruments to National Merit Scholarship Finalists.

### US State Department Scholarship

Awarded American Youth Leadership Program Scholarship for 5 week, all-expenses-paid study abroad and community service in Ecuador. Program selected 18 students in the Greater Houston Area.

## MISC. PROJECTS

Handwritten Digit Recognition in Python

- Use of feed-forward neural network to classify handwritten digits.

Android Application for high school volunteering with Android Studio

- Built an application with integrated calendar and event creation mechanisms.

Markov chains for Text in Java

Twitter based "Fortune Cookie" generator

- Used the Twitter and IBM Watson API's for sentiment analysis to return an emotionally relevant fortune cookie. Built at HackTX 2017.

## LINKS

Github: [github.com/v-rajaram](https://github.com/v-rajaram)

LinkedIn: [linkedin.com/in/varun-rajaram](https://www.linkedin.com/in/varun-rajaram)

DevPost: <https://devpost.com/v-rajaram>

## LANGUAGES

English, Spanish, Tamil

## EDUCATION

### UNIVERSITY OF TEXAS AT AUSTIN | BS C.S.- TURING SCHOLARS AND DEAN'S SCHOLARS HONORS PROGRAMS | BA PLAN II HONORS PROGRAM

Nov 2017 - Present | Austin, TX

- Relevant Coursework (H = Honors version of the class): Data Structures H, Discrete Math H, Vector Calculus H, Computer Architecture H, Statistics and Probability

## EXTRACURRICULARS

### TEXAS 4000 FOR CANCER Aug 2017 - Present | Austin, TX

- Service organization that raises money and awareness for cancer through community outreach.
- Training for 4500 mile benefit bicycle ride from Austin, TX to Anchorage, AK in 2019.

## EXPERIENCE

### M.D. ANDERSON CANCER CENTER | RESEARCH INTERN

June 2016 - August 2017 | Houston, TX

- Worked in Diagnostic Radiology applying deep learning to cancer imaging, with a focus on MRI's and PET-CT Scans.
- Initial projects involved MRI flare detection and histopathology image analysis.
- Used OpenCV, Tensorflow, and Python for neural network applications.
- Pursued further research into Low-Grade Gliomas and signaling pathways, applying machine learning to genomic sequencing, using Python and R.

### FORT SETTLEMENT MIDDLE SCHOOL CODING CLUB | FOUNDER OF AFTERSCHOOL CLUB

August 2015 - June 2016 | Sugar Land, TX

- Founded Coding Club for students at a local middle school, teaching fundamental computer science skills.
- Began teaching students to work with Scratch, and eventually progressed onto Java. Coding Club still exists today.

### GLOBAL ISSUES SUMMIT | Co-COORDINATOR

August 2016 - April 2017 | Sugar Land, TX

- Co-Coordinated an entirely student-run conference focusing on the United Nations Sustainable Development Goals.
- Conference had over 700 attendees from around the community.
- Extensive use of Microsoft Powerpoint, Excel, and Word (and Google Drive Equivalents).
- [globalissuessummit.org](https://globalissuessummit.org)

## PUBLICATIONS

[1] Garg N, Elshikh M, Rayan J, Rajaram V and Bhosale P:  
Differentiating Pancreatic Cystic Lesions Clinics in Oncology, in press.