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

LinkedIn: 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

Aug 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

WILLIAM P. CLEMENTS HIGH SCHOOL | Global Studies Academy

August 2013 - June 2017 | Sugar Land, TX

- Vice President of Global Studies Academy Magnet Program
- 5 time Model United Nations 'Best Delegate'
- Relevant Coursework: AP Computer Science A, Computer Science 3 (Data Structures and Algorithms), Computer Science 4 (Independent Study), Multivariable Calculus.

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`

PUBLICATIONS

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