Siddartha Devic
Curriculum vitae

OBJECTIVE

"To obtain an internship the summer of 2018."

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EDUCATION

2017 – PRESENT — **Computer Science and Mathematics**
UNDERGRADUATE, 4.0
The University of Texas at Dallas

2013 – 2017 — **International Baccalaureate Diploma**
Westwood High School, Austin, TX

RESEARCH EXPERIENCE

AUGUST 2017 – PRESENT
Machine Learning
UTD Student Researcher

Developing a system to approximate neural network margins in high dimensional image-solution space. Previously investigated foundations of residual neural networks. Independent investigation mentored by Dr. Nicholas Ruozzi.

JUNE 2017 – AUGUST 2017
Virtual Reality
UTD FIVE Lab

Developed a novel method for physical object selection and representation in virtual reality. Prototyped using Unity3D and the HTC VIVE virtual reality headset. Presented work at the Clark summer research conference.

JUNE 2016 – DECEMBER 2016
Astronomy
UT Austin Astronomy Department

Looked for patterns in data from the McDonald observatory concerning extrasolar planets. Also worked to slowly convert a data mining FORTRAN application into Python.

HONORS AND AWARDS

Intel Innovate FPGA Semi-finalist (Top 20 US)
Computing Scholars (CS^2) Honors Program
Collegium V Multidisciplinary Honors Program
Clark Summer Research Program
Academic Excellence Scholarship (Honors level)

PROJECTS

2018 — **deep-margins**
Approximating neural network decision boundaries given a binary solution space. This project consists of a neural network classifier in TensorFlow, a margin estimator in Python, and an image generator utilizing OpenCV. (github link)

2017 — **MyUTD (Google Play Store)**
An Android application to track public transportation in the form of comet cabs around the UTD campus. Utilizes the QT cross-platform development framework, C++, QML, and JavaScript. Recognized by the application development team at UTD OIT. (github link)

2017 — **physVR**
Novel method to scan physical objects and represent them in virtual reality in Unity3D and C# using Unity's scripting system. (github link)

VOLUNTEER WORK

SEPTEMBER 2017 - PRESENT
Work with Codeburners, the UTD competitive programming team, to host coding competitions and computer science camps for high school students.

2012-2017
Cooked for and cleaned after 200-300 Austin homeless weekly at the Caritas Soup Kitchen. Experienced working in and leading teams through time intensive tasks. 3-4 hours each week.

2008-2017
Organized and held a birthday party every month for patients at the Austin State Hospital. Learned to work with and respect mentally disabled patients. 5-6 hours each month.

2016-2017
Held 4 week-long and free computer science camps for middle school students at Canyon Vista Middle School. Taught computer science concepts and simple programming exercises in Python.

SOFTWARE SKILLS

ADVANCED — C++, Java, Linux, QT, QML, Unity3D

INTERMEDIATE — Python, LaTeX, TensorFlow, git, C#, JavaScript, vim