

ISHAAN M. PARIKH

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EDUCATION

Banneker-Key Scholar - University of Maryland, College Park, MD, **GPA: 4.00** **Expected Spring 2018**
Honors College, University Honors, Major: Computer Science, 86/120 credits
Math/Science/Computer Science Magnet - Montgomery Blair High School, Silver Spring, MD, GPA: 3.91 **June 2015**

COMPUTER LANGUAGES

[<https://github.com/iparikh>](https://github.com/iparikh)

Java, Javascript, HTML, Python, Swift/xCode, CSS/SASS, Node.js, Matlab, C

PROJECTS

Exploration of Objects with the Baxter Research Robot Using an RGB-D Sensor and PCL, UMD CS Research **2016**

[<http://iparikh.co/assets/files/baxter.pdf>](http://iparikh.co/assets/files/baxter.pdf)

- Used Point Cloud Library to obtain depth cloud information with an Asus xTion Camera
- Utilized ROS and PCL to segment depth clouds and perform analysis (C++ and Python)
- Interacted with Baxter Research Robot to move camera to obtain more data

Perfect Partner, Bitcamp 2016

2016

[<https://youtu.be/kLIiPQ02tAI>](https://youtu.be/kLIiPQ02tAI)

- Used OpenCV and OpenNI to analyze depth cloud information for ellipse detection
- Autodesk utilized for 3D printing launching mechanism
- Utilized Arduino to alter firing platform for each detected case

OmniTestr, PennApps 2016

2016

[<https://github.com/OmniTestr>](https://github.com/OmniTestr)

- Developed a web app to load test public API requests on any given website
- Used Node.js' ws and requests packages to make a large amount of http requests
- Used d3.js for informative and beautiful data visualization

Vroom-Vroom, Best Hardware Hack – HoyaHacks 2016

2016

[<https://vroomvroom.space>](https://vroomvroom.space)

- Built a Jenga car powered by servos and Spark Core to stream video to Oculus VR for enhanced control
- Added Myo Armband interaction by setting different directions to different gestures (Python)

"Metabolic Profiling of the Different Subpopulations of Melanoma Cells," UC San Francisco

2014

[<http://jes2s.com/September2014/scc.html>](http://jes2s.com/September2014/scc.html)

- Used nuclear magnetic resonance spectroscopy (NMR), gamma counting, and cell culture to metabolically analyze the slowly cycling cell subpopulation.
- Named semifinalist in the Intel Science Talent Search international science competition
- Received special recognition from the International Society for Magnetic Resonance in Medicine

LEADERSHIP & EXPERIENCE

Terrapin Hackers, College Park, MD

2015 – present

President

- Providing hackers with a rich, high-energy environment with programs and maker-spaces like Collider
- Organizing biweekly hacktorials so students are constantly learning
- Starting the challenge night and mentorship initiatives to help new hackers learn quickly

Startup Shell, College Park, MD

2015 – present

Eta Batch

- Developing TutorMatch (tutoring 'middleman' social network) into a full platform
- Converting Collider, UMD's hackerspace, into a more accessible location with better resources

HONORS

Banneker-Key Scholarship: UMD's highest merit-based scholarship for significant leadership and accomplishment

Campus Innovator Award: Award for helping revitalize Collider, UMD's hackerspace

President's Gold Volunteer Service Award: Award for completing 800 Student Service Learning hours in high school