

# NAVEEN DURVASULA

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## EDUCATION

**Montgomery Blair High School Magnet Program** - Silver Spring, MD

**Class of 2019**

GPA: 4.00 unweighted;

**Takoma Park Middle School Magnet Program** - Silver Spring, MD

**Class of 2015**

GPA: 4.00 unweighted;

## EXPERIENCE

**Computer Science Department - Prof. Aravind Srinivasan, UMD**

**Apr 2015 - Jun 2016**

- Solved several theoretical problems using advanced probabilistic techniques

**Computer Science Department - Profs. William Gasarch, John Dickerson, UMD**

**Jun 2016 - Sep 2017**

- Used applied mathematics and optimization techniques to solve the muffin problem
- This work is an invited presentation at the Joint Mathematics Meeting of the AMS and MAA
- Pending confirmation to the ITCS conference, and available to view on arXiv

**Computer Science Department - Profs. Aravind Srinivasan, John Dickerson, UMD**

**Jun 2016 - Sep 2017**

- Created a quality metric for kidney paired donation
- Implemented a realistic kidney exchange simulator
- Created a modified Bayesian optimization scheme to learn the output of the black-box simulator
- Pending confirmation to the AAAI conference
- One of four projects in the county to be accepted to the Intel International Science and Engineering Fair
- First place award winner of the Washington Statistical Society award at Science Montgomery
- First place award winner of the U.S. department of Health & Human Services award at Science Montgomery
- Second place award winner of the Ashtavadhani Vidwan Ambati Subbaraya Chetty Foundation award at ISEF

## HACKATHONS

**CADVR; HackUMBC Spring 2016** - Views any imported 3D .obj model in Oculus Rift virtual reality environment mounted with a Leap Motion for viewing controls. **Winner - Best Tool for Developers**

**IMUCAP; HackUMBC Fall 2016** - An affordable low-latency motion capture system powered by several 9-axis IMUs and a quaternion filter intended for virtual reality gaming. **Winner - Most Innovative Game**

**FridgeSight; PennApps XVI** - Converts any existing fridge into a smart fridge

**Winner - Hasura Special Prize**

## ACTIVITIES

**President; MBHS Systems** - A club aimed at developing and releasing an impactful product from scratch over the course of the year using advanced mathematics (e.g. scalable global pollen modelling) **2016 - Present**

**Mechanics, Programming, Driver; FRC Team 449** - Blair's First Robotics team

**2015 - Present**

**Member; Cybersecurity club** - Blair's competitive cybersecurity club

**2015 - 2017**

**Member; Computer team** - Blair's competitive computer science team

**2015 - Present**

**Member; MBHS SysOps** - Network and system administrators at Blair

**2015 - 2017**

**Doubles; MBHS Tennis** - Blair's tennis team

**2015 - 2016**

**Piano student** - Piano student of Mrs. Batya Harel

**2004 - Present**

## SKILLS

**Software:** Python • Java • Unity3D • Unix • HTML/CSS/JavaScript/PHP/SQL • GitHub • ReactJS - Android/iOS • Inventor/Blender (CAD) • C++ • C#

**Language:** Proficient in written and spoken Spanish; 6 years experience