Surya Venkatram

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Education

HIGH SCHOOL | GRADUATION - 2018 | MIDDLESEX COUNTY ACADEMY FOR SCIENCE, MATHEMATICS, AND ENGINEERING TECHNOLOGIES

· Academics – 4.5 weighted academic GPA, honors and AP scholar, student-athlete.

· Honors Courses – Algebra II, U.S. History I, Spanish II, American Literature I, Civil/Mechanical Engineering Technologies.

· AP Scholar – Biology, Chemistry, Computer Science, Physics C (Mechanics), Physics C (Electricity and Magnetism), AP Calculus BC, AP Environmental Science.

· Mathematics related activities - 2015 AMC 10-A, 2014, 2015 In-ter-stel-lar competitions, 2015, 2016 Trig Star Exam, 2016 AMC 10 A, 2016 AMC 10 B, 2016 Purple Comet, 2016 MathCon.

· Science related activities – United States Annual Biology Olympiad, United States Annual Chemistry Olympiad, AP Biology, AP Chemistry, Waksman Institute of Microbiology DNA Sequence Analysis Program, Science Bowl.

· Engineering related activities – Civil/Mechanical Engineering Honors Course, 2016 Verizon App Challenge, 2016 Technology Student Association Web Development Challenge, 2016 MCVTS Career Tech Expo, 2016 Congressional App Challenge, 4th in state in Database Design and Application – Future Business Leaders of America - Phi Beta Lambda State Leadership Conference.

· Communication skills – Experienced at public speaking through Model UN and Debate, native/bilingual fluency in English and Tamil, limited working proficiency in Spanish, French, and Sanskrit.

· Sports activities – 2016 Junior Varsity Soccer (Middlesex County Academy), 2015 Junior Varsity Tennis (Edison High School), and 2016 Varsity Tennis (Edison High School).

· Achievements and Awards – Eligibility for National Merit Scholarships with a PSAT score of 1420, 2015 Statewide Bronze Medal for the National Spanish Exam, 4th in State at the FBLA State Leadership Conference, 3rd in MCVTS Career Tech Expo.

· Extracurricular activities - National Academic Quiz Tournaments, Science Bowl, Academy Orchestra, Programming Club, App Development Club, Startups Club, 2016 Model United Nations National Team, Junior State of America Mid Atlantic State Region, OS Club, Math Games Club, DNA Club.

Skills & Abilities

SOFTWARE ENGINEERING

· Front-end web development – HTML, CSS, JavaScript

· Back-end web development – Node.js, Ruby on Rails, PHP, Python

· High-level languages – C++, C#, Java

- Mobile development – iOS in Objective-C, iOS in Swift, Android in Java with Android Studio IDE, Android in LUA with Corona IDE

- Operating system development – C, Python (for graphical applets)

- Other programming languages – MATLAB, TeX (LaTeX)

DATABASE DESIGN AND ENGINEERING

- Microsoft Access

- Microsoft SQL Server

- PHP, Ruby with MySQL

- MongoDB

- Firebase

- IBM DataStage

MECHANICAL ENGINEERING

- Autodesk Inventor Professional

- Autodesk AutoCAD Professional

- Autodesk Fusion 360

- SketchUp

- 3D Printing with MakerBot Replicator 3D Printer

Experience

HEAD OF MARKETING | DEF HACKS() | 2015-2016

- Head of the marketing team for Def Hacks() NJ, a high school hackathon run by high schoolers, taking place in the spring in New Jersey, Maryland, New York, and California.

WEB DEVELOPER | WEBSILON | 2015-2016

- Websilon is the website adaptation of the Epsilon project undertaken by the Middlesex County Academy Math Games team, which is a project designed to teach mathematics skills and concepts to younger children through the use of an interactive, fun, and easy to play video game.

DEVELOPER/DEBUGGER | UBUNTU GNOME PROJECT | 2015-2016

- Works on bug fixes and testing for the Ubuntu GNOME project. Also a member of the Kaldersvell OS development team, a group of developers from the Middlesex County Academy OS Club, which is an open source Linux based operating system.

STUDENT RESEARCHER | RUTGERS UNIVERSITY DNA SEQUENCE ANALYSIS PROGRAM | 2015 - 2016

· A student researcher for the Rutgers University DSAP program, conducted by the Rutgers University Waksman Institute for Microbiology. This program is an intensive after-school program that allows students to analyze and sequence DNA from a protein in Landitolia Punctata, commonly known as Duckweed.

WEB DEVELOPER | ACADEMY MODEL UNITED NATIONS CONFERENCE | 2015-2016

· Head web developer for the 2016 Spring Middlesex County Academy Model United Nations Conference website, and Under-Secretary General of IT for the conference.

WEB DEVELOPER/ENGINEERING INSTRUCTOR | SPARKION | 2015-2016

· Lead web developer and mechanical engineering instructor for Sparkion, an online video project that delivers informational content in an innovative and easy-to-access way, over the popular video sharing site YouTube.