ANEESH KOTNANA

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Class of 2018, Thomas Jefferson High School for Science and Technology

Objective: Seeking summer internship opportunities (2016) to utilize and improve my knowledge in the areas of artificial intelligence, automation, computer programming, cybersecurity, mobile applications and robotics.

PROFILE

▸ Excellent student with a wide range of talents and interests. Enthusiastic and passionate about making the world a better place through STEM. Interested in mentoring and increasing exposure to STEM to underprivileged and/or disadvantaged children. Self-motivated attitude with great people skills.

ACADEMIC COURSE WORK & ACHIEVEMENTS

▸ AP Computer Science with Data Structure using Java (2014-15) Scored 5/5
▸ Design and Technology (2014-15)
▸ AP Calculus BC (2015-16)
▸ Artificial Intelligence I & II using Python (2015-16)
▸ SAT Math II (Jun 2015 – Took in 9th Grade) – 800/800
▸ PSAT (Oct 2015 – Took in 10th Grade) – 1480/1520

TECHNICAL SKILLS

- Java (Proficient)
- HTML/CSS (Good)
- GitHub (using Git)
- Android Programming (Proficient)
- JS/JQuery (Moderate)
- Linux (Ubuntu)
- Python (Proficient)
- Arduino
- Microsoft Office

VOLUNTEER WORK EXPERIENCE

▸ **Virginia STEAM Academy (https://vasteam.org/)**   **2013 – to date**

  o Developed original middle school math contest-level problems to be included in the Virginia STEAM Academy's pilot online learning module

  o **Teaching Assistant**, Cyber Security Course (2015) – one week summer camp at Radford University

    - Assisted Dr. Prem Uppuluri, Asst. Professor, Radford University in teaching Cyber Security Course to higher elementary and middle school students
    - Developed and supported homework and practices problems, hands-on problem solving and group work activities

  o **Student Representative for Virginia STEAM Academy (Feb 2nd 2015)**

    - Shared Virginia STEAM Academy experience with VA state legislators
    - Presented before the House Science and Technology Committee to pass House Bill and Senate Bills

  o **Citizen Leader Summer STEAM** 2014

    - Created a web platform for Ambassadors to share their stories and experiences from Summer STEAM
    - Presented website as one of the keynote speakers at the Closing Ceremony of Summer STEAM 2014
    - Proposed Student Teaching Assistant position and became a first Student Teaching Assistant, a position typically reserved for college or graduate students

▸ **National Building Museum**   **2013 – to date**

  o **Member, Teen Advisory Council** : Acted as ambassadors for teen programs at the museum, mentored Design Apprenticeship Program (DAP) I & II participants and further explored design skills and leadership

- Design Apprenticeship II (Spring 2015): Participated in 8 week program, designed and constructed full-scale project from concept to completion targeted to improve presence, visibility, way-finding, and engagement of Petworth Community Market (used Adobe Photoshop)
- Design Apprenticeship I (Fall 2014): Participated in 8 week program, designed and constructed a mechanism to utilize underutilized open window spaces in the Nation Building Museums

HONORS & ACCOMPLISHMENTS

CTF (Capture-The-Flag) Cybersecurity competitions   **2016**

- Organized TJCTF (problem-writer), a jeopardy-style competition with various problems in topics such as cryptography, forensics, binary exploitation, and algorithms.
  - Competition turnout included over 500 teams **worldwide**.
- Competed in sCTF, a jeopardy-style competition, and solved various problems such as cryptography, algorithms, forensics, binary exploitation, and steganography.
  - sCTF 2016 Q1 – **finished in 4th place** out of the 750 teams (OM3G4)
  - sCTF 2015 Q2 - **finished in 9th place** out of the 900 teams (Ryears)
- Competed in EasyCTF an online hacking/cybersecurity contest cracked, decompiled, and decrypted through many defenses to retrieve the "flag" and **finished in 10th place** out of the 1,400 teams (Ryears)

Hack TJ (over 90 teams participated)   **2016**

- Civic Technology - Mobile Application, competed in a 26-hr hackathon and developed an Android app with an intent to use crowd sourcing to save lives by speeding up response time for medical emergencies.
- The client-server based app, HaloWorld, was selected as **one of the top ten hacks**.

Website   **2016**

- Created my own website using HTML/CSS with Materialize (Material Design)

Rosalind Bioinformatics   **2014 - Ongoing**

- Participated in a bioinformatics competition and solved problems using Python and Java
- Won **1st place twice** in multiple school-wide competitions

First Tech Challenge (FTC)   **2014 – 2016**

- Participated in two FTC seasons and designed, built, programmed, and operated a robot to play a floor game in an alliance format and advanced to semi-final round (2nd season)
- **Won Rockwell Collins Innovate Award** (1st season) for most innovative and creative robot design solution

First Lego League   **2009 - 2014**

- Participated in 6 seasons of First Lego League, won the Champion's Award in the regional competition twice, Robot Design Award in the regional competition twice, and Robot Design Award once in the state competition

American Computer Science League (ACSL) Junior Division   **2013-14**

- Competed in computer science and computer programming contests and **placed 5th in the world** based on a programming and written contest.

HOBBIES

- Long Distance Running – Participated in three half-marathons and two ten mile races
- Music – Performed in a symphonic orchestra at The Kennedy Center (2013) and the Rachel M. Schlesinger Concert Hall (2014) as a member of The Capital Youth Symphonic Orchestra
- Soccer – Played two seasons in Herndon Youth Soccer

- Won 1st place in U-16 Division in Northern Virginia in the 2016 Spring season
- Selected for the Herndon All-Stars team in the 2016 Spring season