RISHABH JAIN

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EDUCATION

Marshall High School

IB Diploma (Expected) 2018

Currently pursuing an IB Diploma. Planning on taking these Higher Level courses: Mathematics, Chemistry, Physics, Economics and History.

Samskrita Bharati

Successfully completed a distance learning course from Samskrita Bharati. Samskritam As a Foreign Language (SAFL) is a three-year online distance education program for high school students who wish to learn Samskritam (Sanskrit).

EXPERIENCE

Vitreous State Laboratory at The Catholic University of America, Research Laboratory Intern

Jun 2017 - Aug 2017

Experimental and theoretical research at The Vitreous State Laboratory (VSL) covers various areas of materials science from cutting edge nanoscale research with the state-of-the-art facilities to large-scale production techniques.

- Assisted in the preparation of various samples for Scanning Electron Microscope (SEM) analysis.
- Researched into applications of volcanic natural glass for nuclear waste vitrification.
- Developed a water quality sensor based on nanomaterials.

FIRST Robotics Team 5549, Outreach Coordinator and Programmer

Oct 2014 - Current

Marshall HS's robotics team participated and was awarded the Rookie All-Star award in the 2015 season.

- Served as Outreach Coordinator and deployed a fast and responsive website for my High School's robotics team with no budget.
- Integrated various technologies into the website for a better user experience.
- Responsible for securing more than \$2000 in grants from various sponsors.
- Helped program the robot using C++. For the 2016 season, also assisted the team in creating a computer vision system using a NVIDIA Jetson TK1 and OpenCV.

Cyberpatriot Team n0passwd, Team Captain and Linux Expert

Sep 2014 - Current

At the center of CyberPatriot is the National Youth Cyber Defense Competition.

- Led my rookie team to achieve Platinum (Top 30%) Status all three years we have competed.
- Responsible for teaching basic Linux system hardening to beginners.
- Created scripts using Bash to automate some processes that are required in the competitions to allow more time for the harder vulnerabilities.
- System hardening included disabling insecure services, removing unsafe applications and securing user accounts.
- Solved forensics challenges which required a unique understanding of the Linux command line interface.

SySTEMic Solutions VEX IQ Summer Camp, Lead Programming Instructor

Aug 2016

One week camp for elementary school students for building and programming a robot.

- Created interactive lessons on the basics of robot programming.
- Taught the students basic programming skills in RobotC.
- Maintained a classroom environment with 30 elementary school students.

VOLUNTEERING

North South Foundation, Math Instructor

Sep 2016 - Current

Responsible for teaching competition math concepts and strategies to a group of elementary school students

Kiwix by Wikimedia CH, Web Developer

Oct 2016 - Mar 2017

Responsible for setting up and maintaining a web store for Kiwix. The revenues generated from the sales will help further Kiwix's mission of making knowledge more accessible for everyone.

ACHIEVEMENTS

Grand Prize, Marshall HS Science Fair

Jan 2017

Grand Prize, Fairfax County Science and Engineering Fair

Mar 2017

Distinguished Honor in Technology, Optimist Club of Greater Vienna's T. R. Cook Youth Awards of Excellence

Apr 2017

Finalist, Intel International Science and Engineering Fair

May 2017