

RISHABH JAIN

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EDUCATION

Carnegie Mellon University

Bachelors of Science in Mechanical Engineering

Aug. 2018 - Current

George C. Marshall High School

International Baccalaureate Diploma

Sept. 2015 - June 2018

RELEVANT EXPERIENCE

Vitreous State Laboratory, Research Laboratory Intern

June 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.

- Analyzed samples using the Scanning Electron Microscope (SEM).
- Researched applications of volcanic natural glass for nuclear waste vitrification.
- Developed a reusable water quality sensor platform capable of detecting heavy metal ions.

CyberPatriot Team n0passwd, Team Captain and Linux Expert

Sept. 2014 - May 2018

A cybersecurity competition in which teams are tasked with securing the network and computers of a small company.

- Led my rookie team to achieve Platinum (Top 30%) Status all four years we have competed.
- Taught 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.
- Solved forensics challenges which required a novel understanding of the Linux command line interface and operating system.

FIRST Robotics Team 5549, Outreach Coordinator and Programmer

Oct. 2014 - March 2017

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

- Deployed a fast and responsive website for my High School's robotics team.
- Secured grants from various sponsors.
- Programmed the robot using C++. For the 2016 season, also assisted the team in creating a computer vision system using an NVIDIA Jetson TK1 and OpenCV.

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 and taught interactive lessons on the basics of robot programming using RobotC.
- Maintained a classroom environment with 30 elementary school students.

VOLUNTEERING

North South Foundation, Math Instructor

Sept. 2016 - April 2017

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

Kiwix by Wikimedia CH, Web Developer

Oct. 2016 - March 2017

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

ACHIEVEMENTS

Finalist, Intel International Science and Engineering Fair

May 2017

Distinguished Honor in Technology, Optimist Club's Youth Awards of Excellence

April 2017

Grand Prize, Fairfax County Science and Engineering Fair

March 2017

Grand Prize, Marshall High School Science Fair

Jan. 2017