

David Sparkman

E-Mail: sparkd@rpi.edu

Education

Rensselaer Polytechnic Institute GPA: 3.17

Fall 2014-Summer 2018

Pursuing Bachelor of Science, Information Technology and Web Science. Concentration: Computer Networking

Experience

Genia Internship (Division of Roche Sequencing); Mountain View, CA

Summer 2015, 2016

- Designed and created an internal webpage to make lab procedures more accessible and efficient.
- Wrote big data analysis software in python to visualize experiment data.
- Reconfigured computers running Linux Fedora from hardware to software RAID.
- Ran sequencing instruments and helped with lab procedures.

RPI Ambulance

2014-Present

- Student-run 911-emergency ambulance service for the RPI campus and surrounding community
- Webmaster, Driver, CPR Instructor, EMT
- Currently redesigning and rebuilding website
- Successful public-facing launch over winter break, planning for member-side launch this summer

Mechanical Science and Engineering Team at Saratoga High School

2010-2014

- Chief Marketing Officer responsible for fundraising and presenting to small and large companies
- Participated in outreach to local elementary and middle schools.
- Participated in FIRST Robotics Competition all four years of high school.

Computer Skills Outreach at Saratoga Senior Center; Saratoga, CA

2012-2014

- Coached seniors in usage of technology such as computers, social networking, email, smartphones, and iPads once per week.
- Researched products on the market and advised seniors which product would best meet their needs.
- Investigated and resolved software issues on seniors' computers.

Saratoga Falcon (High School Journalism); Saratoga, CA

2010-2014

- Lead Technical Support: Repaired, organized, and maintained iMacs as IT lead. Installed and set up new computers.
- Head Photographer: Coordinated event times that needed pictures and took them as head photographer.

Operation Catapult at Rose-Hulman Institute of Technology; Terre Haute, ID

Summer 2013

- Brainstormed, designed, constructed, and pitched an automated "rail runner" robot.
- Acquired machining and CAD skills with Autodesk Inventor Pro.

Awards

- Parent Teacher Student Organization (PTSO) award for commendable citizenship.
- Los Gatos Saratoga Union High School District Distinguished Student Award.
- Letter of Commendation for the National Merit Scholarship.
- Presidential Scholar.
- RPI Dean's list (Spring 2015, Fall 2015, Spring 2016)

Certifications

- Cisco Certified Entry Networking Technician (CCENT)
- American Heart Association BLS, Heartsaver CPR Instructor
- New York State Emergency Medical Technician—Basic

Skills

- Competent in full Adobe CS3 and CS6, and CC Suite.
- HTML5, CSS, Python, JavaScript, J-Query, PHP, Bootstrap, C++, AngularJS, MySQL
- Very experienced with Mac OSX, iOS, Windows, Linux Ubuntu.
- Experienced with Microsoft Word, PowerPoint, Excel, Pages, Numbers, and Keynote
- Fluent in German

Relevant Coursework

- Computer Science I (Python), Intro to ITWS (HTML, CSS, JavaScript), Calculus I, Calculus II, IT & Society, Data Structures (C++), Visual Communications, Cisco Networking Lab I, Web Systems Development, Web Science Systems Development, Managing IT Resources, Typography, Computer Organization (MIPS)