JOO HYUN (STEVEN) KIM

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EDUCATION

Dartmouth College, Hanover, NH   **Expected June 2019**

Bachelor of Arts, major in Computer Science Modified with Engineering, minor in Applied Mathematics

Relevant Coursework: *Object Oriented Programming, Scientific Computing, Discrete Probabilistic Systems, Linear Algebra*

Newport High School, Bellevue, WA   **June 2015**

Class Rank: 4/379, SAT: 2300/2400

Awards: *4-year American Invitational Mathematics Examination Qualifier (USA top 1%), Mu Alpha Theta Math Competition – 3-year State Champion, Presidential Service Award, National AP Scholar, Northwest Math Championships – Individual 3rd place*

WORK EXPERIENCE

Symantec Corporation, Boxborough, MA (Software security for clients including Fortune 100)   **Jan. 2017 – Mar. 2017**

Intern – Software Engineer

- Led 2 interns and worked with 2 security engineers to design, engineer, and write feature specifications for 2 out of 15 user interface features of SSL Visibility (newest network protection product) that protect customer sign-in private information and enable management of other private data with simple clicks and user-friendly type-in commands.
- Collaborated with two engineers to develop a program that updates a database of 30+ existing security vulnerabilities on an Operating System and sends weekly updates to 20+ engineers, who can now easily identify and eliminate vulnerabilities.

Izentis LLC, Cambridge, MA (Consulting engineering firm for NASA, MIT, and Harvard)   **June 2016 – Aug. 2016**

Intern Engineer

- Supported MIT's Space Nanotechnology Laboratory and NASA on the design and implementation of experiments to develop NASA's next-generation x-ray telescopes, a 3-year project to enhance studies of the universe's makeup.
- Collaborated with members of Harvard Smithsonian Center for Astrophysics to engineer an end-point detection tool that enhanced the efficiency of sample-generating machine, which was used by 3 out of the 7 projects, by approximately 10%.

Thayer School of Engineering at Dartmouth, Hanover, NH   **Jan. 2016 – May 2016**

First-Year Research Assistant – one of the 10 selected first-years

- Designed, 3D printed, and assembled a microscope stage using Solidworks (3D Computer Aided Design program), Thayer Machine Shop that enables safe imaging and injection of pancreatic cancer cells into chicken chorioallantoic membranes. My microscope served as the main apparatus for my mentor's 3-year research project.

Philips Medical Systems, Bothell, WA   **Sept. 2014 – June 2015**

Research and Development Intern

- Collaborated with 5 medical doctors to properly identify and produce a database of more than 1300 patient heart rhythm samples from Australia, Netherlands, and Washington using Matlab and Microsoft Access programs. This database was a basis for Sherlock, an algorithm for AED devices that maximized the reduction of the average time of cardiac resuscitation.

The Catholic University of Korea, Dept. of Internal Medicine, Incheon, South Korea   **June 2013 – Aug. 2013**

Summer Research Intern & Co-author

- Collaborated with 5 faculty members to perform meta-analysis on 2000 articles relating to treatments of *Helicobacter pylori* (pathological gastric bacteria) in Asians from Google Scholars based on treatment location, type, and effectiveness.

LEADERSHIP EXPERIENCE & SERVICE

Washington Student Math Association, Issaquah, WA   **Jan. 2012 – August 2015**

President

- Established events such as Elementary math expositions or Math Bowl (jeopardy-style math competition) that hosted more than 100 people per event. Obtained sponsorships from Microsoft, Microsoft Store, and Educurious to support the events.
- Directed the compilation of Testhub, an online resource consisting of more than 150 local, state, and national math competitions, to help any student gain easy access to math competitions.

Newport Math Club, Bellevue, WA   **Sept. 2011 – June 2015**

President

- Directed Knights of Pi Math Tournament, a math competition consisting of 450 elementary and middle school students, to promote interests in mathematics. Raised more than $7000 dollars year, which covered my club's entire yearly costs.

TECHNICAL SKILLS AND ADDITIONAL ACTIVITIES

Programming**:** C, C++, Java, Matlab, HTML/CSS, Python, Bash, Microsoft Office

Languages**:** Korean (Native)

Activities: Dartmouth Coalition for Immigration Reform, Equality, and Dreamers (incoming Director of Communications), Rockefeller Management and Leadership Development Program, Chi Gamma Epsilon Fraternity, Korean Students Association