

Patrick Reinhard Ludwik Kage

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Experience

NASA Jet Propulsion Laboratory

(June 2016 – August 2016)

Software engineering intern at NASA's Jet Propulsion Laboratory in Pasadena, CA. Based out of 397-F (the Ops Lab Human Interfaces Group), developed mission formulation software to enable design of satellite propulsion systems in support of Team X and Xc's model-based systems engineering and foundry modernization initiatives.

MIT Space Telecommunications, Radiation, and Astronomy Lab

(June 2015 – August 2015)

Research intern with the MiRaTA microsatellite team, developed a web dashboard to monitor and control the satellite (using Flask/Python) and a task scheduler monitor for the microsatellites RTOS.

NASA Jet Propulsion Laboratory

(June 2015 – August 2015)

Created software for NASA's Jet Propulsion Lab to help to identify existing spacecraft buses to fit proposed mission payloads by meeting user-specified constraints (like cost, power, etc.).

Education

High School

Choate Rosemary Hall
Senior, Class of 2016

Achievements

Johns Hopkins Center For Talented Youth

Honors award

Courses taken: Robotics, Inductive and Deductive Reasoning, Cryptology, Computer Science, Electrical Engineering, and Fast Paced HS Biology

Founder and President of Choate's Programming Club (CPU)

Aims to teach programming – meets weekly

Over 100 members

Caused 10 fold increase in computer science credits at Choate (<20 to 200+ per year)

Awarded \$1000 grant from Google in 2014

She++ Fellowship Award, Stanford University

Talked at panels in Stanford University, Google's Mountain View office, Facebook's Menlo Park office, and Microsoft's Palo Alto office

Addressed diversity in computer science

Stanford Continuing Studies Program (iOS Application Development Course)

Learned to create applications targeting iOS using Objective-C & iOS SDK

Summer course at MIT

Choate Rosemary Hall Award for Achievements in Advanced Computer Science

Awarded for excellence in computer science

Harvard University Secondary School Program

Took Global Health, Cryptology, Quantum Physics, Modern Physics, and Web Design.

Skills**Programming Languages**

C/C++, Python, HTML/CSS/SCSS, Javascript, Java, Bash (scripting)

Frameworks

Meteor (Javascript), React.js (Javascript), Flask (Python), SFML (C++), Boost (C++), Bootstrap (HTML/CSS), Materialize (HTML/CSS), SQL (database), Mongo (database)

Interests

Computer Science, Medicine, Aerospace

References

References are available on request.