

Vijay Viswanathan

Contact Information

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Personal Information

www.andrew.cmu.edu/user/vijayv
U.S. Citizen
Security Clearance: *Secret*

EDUCATION

Bachelor of Science, Mathematical Sciences, May 2016 (expected)
Concentration: Discrete Math and Logic *Minor in*: Computer Science, and Language Technologies
Carnegie Mellon University, Pittsburgh, PA

SKILLS

Technologies: C++, C, C#, Python, Java, Javascript, MongoDB, SQL, Standard ML, x86 assembly, HTML
Software: *nix, GIMP, OpenOffice, Git, LaTeX, Matlab, Robot Operating System (ROS), NationBuilder
Spoken languages: English (native), Tamil (fluent), Spanish (proficient)

EXPERIENCE

Carnegie Mellon University, Pittsburgh, PA
11-690: Intelligent Information Systems featuring *IBM Watson* August 2014 - *present*

- Working on applying IBM Watson's open question-answering technology to a mobile application

Microsoft Corporation, Redmond, WA *Cloud Storage Intelligence Team, OneDrive*
Software Development Engineering (SDE) Intern May - August 2014

- Worked on an internal big data analytics platform, using machine learning tools on customer data
- Designed a predictive model of customer engagement for OneDrive using the Random Forest algorithm

Decisive Analytics Corporation, Arlington, VA
Software Engineering Intern May - August 2013

- Used topic modeling and natural language processing to analyze social media feedback data
- Developed training data to improve the quality of machine learning on structured text documents

Carnegie Mellon University, Pittsburgh, PA
SPIRAL Project Undergraduate Researcher February 2013 - *present*

- Working in the SPIRAL Project in the ECE Department, under Franz Franchetti. Focusing on automatic program optimization of multidimensional linear algebra and geometry algorithms.

Carnegie Mellon University, Pittsburgh, PA
"Creating Intelligent Robots" August 2012 - December 2012

- Studied robotics in Dr. Manuela Veloso's "CORAL" lab through 15-491: "Creating Intelligent Robots"
- Team designed novel way for "Cobots" to traverse ramps, bridges, and irregular hallways autonomously.

HONORS

Thiel "20 Under 20" Fellowship Finalist (featured on CNBC),
Siemens Competition Regional Finalist,
National Merit Scholarship Finalist

PRESS

- Pittsburgh Post-Gazette* "Brother inspires USC senior to enter research competition" (goo.gl/aLqbk)
- Pittsburgh Tribune-Review* "Upper St. Clair youth [...] to compete for coveted prize" (goo.gl/VxZd5)
- Two short interviews featured on CNBC's "20 Under 20: Transforming Tomorrow"
- Paper authored on *arXiv*, entitled "Developing a computational model of blood platelets with fluid dynamics applications": arxiv.org/pdf/1206.0456.pdf

ACTIVITIES

- Alumni Relations Chair and Webmaster of Sigma Nu Fraternity
- Student Senator for Mellon College of Science at CMU (student government)
- Avid competitive ultimate (frisbee) player