John S.G. Purviance

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Education	**Virginia Polytechnic Institute and State University**, Blacksburg VA **Bachelors of Science, Computer Science**, Expected Graduation in May 2017 Minor in Economics and Math GPA: 3.339/4.0
Current Work	**Undergraduate Teaching Assistant, Introduction to Floral Design** Virginia Tech, January 2016 — Present • Create example designs and assist students with personal arrangements.
Past Work	**Software Engineer (Intern), Reinventing Geospatial, Inc.** Fairfax Virginia, January 2015 — August 2015 • Designed Python command line tools for users to establish and manage GIS Services. • Configured and tested RHEL servers as proxies for accelerating Maps on Apache. • Worked with Web APIs to simplify user workflows for establishing, managing and accelerating Maps and GIS services.
Personal Projects	**Hardware Cache Simulation and Algorithm Analysis** • Developed Java based cache simulation application for Direct Mapped, Set Associative and Fully Associative Caches with a Write-Back eviction policy. • Implements Quick, Heap, Bubble and Insertions Sort along with Linear Search and Binary search for algorithm analysis. **www.johnpurviance.com** • Personal website hosted on GitHub pages
Research	**NSF/REU Grant - Learning Enhanced Watershed Assessment System** (LEWAS Lab) Virginia Tech, Blacksburg Virginia, September 2013 — January 2015 • Designed a Raspberry Pi based autonomous environmental monitoring system. • Developed Python scripts for data acquisition from environmental sensors. • Established a database with a normalized schema to handle sensor addition and removal from the system.
Past Work	**Human Resources Intern**, **Stansley Industries**, Sylvania Ohio, Summer 2013 • Responsible for driver, employee and company file management. • Projects included offsite file storage, investigations into prior employment and employee and company compliance with Federal, State and Local Regulations.
Skills	Experienced in **Python, C, Java, HTML, CSS** and **JS**　　Proficient with **RHEL, Apache HTTPD Puppet Configuration Utility** and **Windows Server**
Leadership Experience	**VT Computer Science Mentor Club,** Spring 2014 and 2016 **Vice President**, Hawthorn House, Residential College at West Ambler Johnston Virginia Tech, August 2013 - May 2014 • Collaborated with residential advisors, house and college council members to manage and promote house events and service projects. • Acted as a liaison between the Residential College at West Ambler Johnston and the Virginia-Maryland Regional College of Veterinary Medicine to promote student involvement in volunteering. • Managed and approved funding for house activities.