

www.johnpurviance.com

## Objective

## Position in Software Engineering or Product Management

### 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 Employment

**Undergraduate Teaching Assistant, Introduction to Floral Design**  
Virginia Tech, January 2016 — Present  
• Create example designs and assist students with personal arrangements.

### Past Employment

**Software Engineer (Intern), Reinventing Geospatial, Inc.**  
Fairfax Virginia, June 2015 — August 2015  
• Removed security vulnerability in REST web application API.  
• Built and utilized web API's to simplify user workflows for establishing, managing and accelerating Maps and GIS services.

**Software Engineer (Co-Op), Reinventing Geospatial, Inc.**  
Fairfax Virginia, January 2015 — May 2015  
• Configured and tested RHEL servers for accelerating Maps on Apache.  
• Designed Python command line tools for administrators to manage 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.

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### Research

**NSF/REU - Learning Enhanced Watershed Assessment System** (LEWAS Lab)  
Virginia Tech, Blacksburg Virginia, September 2013 — January 2015  
• Designed a Raspberry Pi based autonomous environmental monitoring system.  
• Established a database with a normalized schema to store data acquired in python.

### Past Employment

**Human Resources Intern, Stansley Industries**, Sylvania Ohio, Summer 2013  
• Responsible for driver, employee and company file management.

### Skills

Languages: **Java, C, Python, HTML, CSS and JS**      Software: **Apache HTTPD, Git, RHEL, ESRI Portal, 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 college council members to manage and promote house events and service projects.  
• Liaison between the Residential College at West Ambler Johnston and the Virginia-Maryland Regional College of Veterinary Medicine to promote student involvement in volunteering.