

John S.G. Purviance

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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.

Website: www.johnpurviance.com

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.