

# John Purviance

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johnpurviance.com

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jpurviance@vt.edu

## Experience

### **Data Engineer** (Intern), **Capital One**

Dallas TX, June 2016 - August 2016

- Developed REST API for tracking and serving log files with Node.js.
- Built dashboard for visualizing system utilization and job tracking.
- Assigned technical responsibility to team members during migration of intern project to production.

### **Software Engineer** (Intern), **Reinventing Geospatial, Inc.**

Fairfax VA, 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 VA, January 2015 - May 2015

- Designed Python command line tools for managing GIS Services.
- Configured RHEL servers for accelerating Maps on Apache.

## Software Prototypes

**Flex, VTHacks III** February 2016

Budget Management Application

- **Microsoft API Winner** for use of Azure and Microsoft APIs.
- Designed Python REST API for interfacing with Capital One user accounts.

**Cafe Connect, Capital One Hackathon**, July 2016

- **Mobile / Web App Winner** for creating an iOS and Web App that facilitated interaction between Capital One customers and banking ambassadors.
- Designed and developed Node.js REST API for application hosting and customer request management.

### **Hardware Cache Simulation and Algorithm Analysis**

- Java-based cache simulation application for algorithm analysis.

## Leadership

- Computer Science Mentor Club Spring 2014, Spring 2016 - Present
- Vice President, Residential College at VT August 2013 – May 2014

## Education

### **B.S. in Computer Science**

**Virginia Tech**, Blacksburg VA

Expected Graduation: May 2017

Minors in **Math** and **Economics**

Computer Science GPA : 3.53/4.0

## Code

### **Teaching Assistant, GUI,**

Virginia Tech, Fall 2016

### **ACM-ICPC Programing Team,**

Virginia Tech, Fall 2016

## Design

**Teaching Assistant, Floral Design,**

Virginia Tech, Spring 2016

## Research

**LEWAS Lab, Virginia Tech,**

September 2013 – January 2015

## Skills

Python, Java, JavaScript, C,  
HTML, CSS, Git, and Node.js

