John S.G. Purviance

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Full-Time Software Engineering Position

Education	**B.S.** in **Computer Science**, **Virginia Tech**, Blacksburg VA

Expected Graduation in May 2017
Minors in **Economics** and **Math**   Computer Science GPA: 3.53/4.0

Experience **Data Engineer** (Intern)**, Capital One**
Dallas TX, June 2016 — August 2016
- Developed REST API for tracking and serving log files with Node.js on AWS.
- Built application dashboard for visualizing system utilization and job tracking.
- Assigned technical responsibility to team members during migration of intern project to production.

Teaching Assistant, Intro to GUI, Virginia Tech, August 2016 - Present

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.

ACM-ICPC Programing Team, Virginia Tech, August 2016 - Present

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

Teaching Assistant, Floral Design, Virginia Tech, January 2016 — May 2016

Research Assistant - LEWAS Lab, Virginia Tech, September 2013 — January 2015
- Designed a Raspberry Pi based autonomous environmental monitoring system.

Software Prototypes **Flex**, Budget Management Application, VTHacks III February 2016
- **Microsoft API Winner** for use of Azure and Microsoft's Public 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, Personal Project
- Developed Java-based cache simulation application for algorithm analysis.

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

Leadership Experience **VT Computer Science Mentor Club,** Spring 2014, Spring 2016 - Present
Vice President, Residential College at Virginia Tech, August 2013 — May 2014