John S.G. Purviance

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Full-Time Software Engineering Position

Education	**Virginia Polytechnic Institute and State University**, Blacksburg VA **B.S.** in **Computer Science**, Expected Graduation in May 2017 Minors in Economics and Math Computer Science GPA: 3.53/4.0 University GPA: 3.23/4.0
Employment	**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. **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 administrators to manage GIS Services. • Configured RHEL servers for accelerating Maps on Apache. **Teaching Assistant, Introduction to Floral Design** Virginia Tech, January 2016 — May 2016 **Human Resources Intern**, **Stansley Industries**, Sylvania OH, Summer 2013
Personal Projects	**CafeConnect,** Capital One Hackathon, July 2016 • **Mobile / Web App Winner** for creating an iOS and Web App for facilitating interaction between Capital One customers and banking ambassadors. • Designed and developed Node.js REST API for application hosting and customer request management. **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. **Hardware Cache Simulation and Algorithm Analysis** • Developed Java based cache simulation application for Direct Mapped, Set Associative and Fully Associative Caches. • Analyzes algorithms to track effective usage of hardware caches.
Research	**NSF/REU -** LEWAS Lab, Virginia Tech, September 2013 — January 2015 • Designed a Raspberry Pi based autonomous environmental monitoring system.
Skills	**Python**, **Java**, **JavaScript**, **C**, **HTML**, **CSS**, **Git**, **AWS** and **Node.js**
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