Peter Johnston

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EDUCATION

Georgetown University

B.S. in Computer Science, Cybersecurity, and International Relations **Exp Graduation: May 2019**

Bachelor of Science in Foreign Service | Korean Minor | Asian Studies GPA: 3.93

- **Coursework:** Machine Learning (in progress), Computer Vision, Cybersecurity: Policy, Technology, and Operations
- **Study abroad:** Spent semester of spring 2018 abroad at Yonsei University in Seoul, South Korea.

WORK EXPERIENCE

Booz Allen Hamilton **Annapolis Junction, MD**

Software Engineering Intern *June 2018 – August 2018*

- Contributed to development of an architecture-independent binary analysis and vulnerability discovery tool by implementing a continuous integration testing framework. Compiled, organized, and wrote a set of real-world and synthetic test binaries to evaluate our vulnerability detectors.
- Used IDA to reverse engineer binaries and discover vulnerabilities. Gained experience in symbolic execution using angr.

Students of Georgetown, Inc. **Washington, DC**

Manager of Software Engineering (formerly Project Lead, Software Engineer) *September 2015 – Present*

- Manage 14 developers on 2 project teams and assist with system design decisions. Review code and act as a resource for members of the IT department of a large, entirely student-run nonprofit. Implemented a training and onboarding process for new hires, including a curriculum of guided lessons to teach Python and web development.
- Built a single sign-on authentication platform with hierarchical permissions for internally used web services.
- Used Python and Django to create a database to store point of sale data, and HTML, CSS, and JavaScript to build an interface to access the data, generate reports, and send automatic emails, for a student-run nonprofit.

Liberty in North Korea **Long Beach, CA**

Web Development Intern *June 2016 – October 2016*

- Built a web platform for group and peer to peer fundraising campaigns, integrating data with Salesforce via the Salesforce REST API, using Python and Django, and designed and built front-end with HTML, CSS, and JavaScript.

Lucid Software **South Jordan, UT**

Software Engineering Intern *June 2015 – August 2015*

- Worked on a development team using Scala and Selenium to write 100+ automated UI-based browser tests for Lucidchart and Lucidpress, collaborative online diagramming and publishing tools.

TEACHING EXPERIENCE

Georgetown Day School

Coding Instructor for After-School Program

Created and carried out a curriculum to teach the basics of computer programming to elementary school students using Scratch in an after-school class.

Georgetown Computer Science Department

Teaching Assistant for NLP for Data Analytics

Evaluated homework assignments and projects done in Python, using natural language processing to analyze texts and determine trends. Served as a resource for students in the class on general programming questions.

SKILLS

Programming Languages
  C++, C#, Java, Scala, Python, JavaScript, HTML, CSS

Frameworks and Technologies
  Django, MySQL, jQuery, Bootstrap, Git, Vagrant, IDA

Foreign Languages
  French, Korean, Spanish (working proficiency)

AWARDS AND HONORS

U.S. Department of Defense Boren Scholarship

U.S. Department of State Critical Language Scholarship

Eagle Scout Award: conducted a series of five food drives for the Utah Food Bank