

## Patrick Cody

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### EDUCATION:

**The George Washington University**, Washington, DC

Bachelor of Science in Computer Science, expected graduation May 2020, GPA 3.45

**Relevant Courses:** Distributed Systems, Operating Systems, Algorithms, Software Engineering

### WORK EXPERIENCE:

**Undergraduate Research Assistant**, Washington DC

*Feb 2017-Present*

GW Cloudlab

- Work on the [OpenNetVM](#) project under Dr. Tim Wood to provide software-defined networking with DPDK
- Presented a demo and co-authored a [demo paper](#) at the [ACM SOSR conference](#)
- For summer 2017, selected to be a fellow for the SEAS Undergraduate Program in Engineering Research, in addition to being a partial recipient to an NSF grant
- Presented the resulting research at the 2018 SEAS R&D Showcase

**Undergraduate Teaching Assistant**, Washington DC

*August 2018-Present*

GW SEAS

- Run a lab section for the Intro to Programming in Java class, and teach review material from lecture and answer questions about in-class lab exercises
- Host office hours 4 hours a week to answer questions students have outside of lab and lecture

**System Administrator**, Washington DC

*May 2017 - Present*

GW Cloudlab

- Manage a 50-machine Linux cluster and associated hardware, including Arista and Dell switches
- Also maintain a VMWare ESXi virtual machine cluster

**Software Engineering Intern**, Washington DC

*May 2018-August 2018*

Mission Data

- Created software demos for R&D projects with experimental hardware, including the Amazon Deeplens and Microsoft HoloLens, and documented the projects on the Mission Data [blog](#)
- Extended back-end Java Spring server to backup incoming JSON files
- Created React web app to utilize the WMATA web API and display incoming metro train times

### TECHNICAL PROJECTS:

**OpenNetVM**

*Feb 2017-Present*

- Implemented virtual network function in C to track internet packet flows
- Added ARP response capability and a configuration file loading system
- Collaborate with other researchers to implement features and decide project direction

**Metro Times Alexa Skill**

*July 2017*

- Used Python and the WMATA web API to create an Alexa Skill that provides train times
- Supports searching for specific stations and receiving system-wide alerts about the metro status

### TECHNICAL SKILLS:

**Languages (Experienced):** Java, C, Python, SQL, HTML, CSS

**Languages (Familiar):** Javascript, PHP, Bash

**Software/Other:** Django, ReactJS, Linux command line, Docker, Kubernetes, Git, GDB, LDAP, VMWare ESXi

### LEADERSHIP POSITIONS:

GW Association for Computing Machinery (ACM) President

*April 2018 – Present*

SEASSPAN Mentor

*April 2018 - Present*