Patrick Cody
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EDUCATION:
The George Washington University, Washington, DC
Bachelor of Science in Computer Science, expected graduation May 2020, GPA 3.54
Relevant Courses: Distributed Systems, Operating Systems, Algorithms, Software Engineering, Unix Programming

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TECHNICAL SKILLS:
Languages (Experienced): Java, C, Python, HTML, CSS
Languages (Familiar): C++, Javascript, PHP, SQL, Bash
Software/Other: Django, React, VMWare ESXi, AWS, Linux/Unix command line, Docker, Kubernetes, Git, LDAP

WORK EXPERIENCE:
Software Engineering Intern, Seattle WA   *May 2019 - August 2019*
Amazon
- Worked on the Kindle Rendering team using C++ and Objective C to build a new feature for Kindle
- Worked within several large codebases to complete and test this feature
- Complied with rigorous testing standards and best practices to implement my design

Software Engineering Intern, Washington DC   *May 2018 - August 2018*
Mission Data
- Developed 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

Undergraduate Research Assistant, Washington DC   *Feb 2017 - Present*
GW Cloudlab
- Contribute to the OpenNetVM project under Dr. Tim Wood to provide software-defined networking and network function virtualization with DPDK
- Presented a demo and co-authored a demo paper at the ACM SOSR conference
- Selected to be a fellow for the SEAS Undergraduate Program in Engineering Research for summer 2017, in addition to being a partial recipient to an NSF grant

Undergraduate Teaching Assistant, Washington DC   *August 2018 - Present*
GW School of Engineering and Applied Science
- Lead a lab section for the Intro to Programming in Java class with review material from lecture and assist with in-class lab exercises
- Host office hours 4 hours a week to aid students with homework and projects

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TECHNICAL PROJECTS:
OpenNetVM   *Feb 2017 - Present*
- Implemented virtual network functions in C to track internet packet flows and respond to ARP requests
- Developed major configuration file loading system to read from JSON files
- Assisted other researchers with integrating configuration file loading system with multi-core network functions

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

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LEADERSHIP POSITIONS:
GW Engineering Peer Mentoring Program Vice President   *January 2019 - Present*
GW Association for Computing Machinery (ACM) President   *April 2018 - December 2018*