

Ji hann Hong

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Experience

Software Engineer 2, Dell Technologies – (Remote) Arlington, VA Feb 2021 – Present (3 yrs, 3 mos)

- Developed secure, scalable applications using Java, Python, and cryptography architecture for PowerStore, our mid-range enterprise server platform
- Enhanced our JSSE, vert.x, and database infrastructure to manage certificates and adhere to the latest SSL encryption standards, ensuring high-level data integrity for our VASA and LDAP systems and for FIPS compliance
- Designed and implemented a Python Django application to automate running CVE scanners and reporting them to our Jira issue tracking platform
- Conducted several of our security best practices such as Twistlock vulnerability scanning, threatmodeling, Burp web security scanning, and Tenable FIPS compliance scanning against our new features and platform as a whole
- Designed and implemented MFA Client in Java as a new capability for PowerStore
- Enhanced LDAP Client several times duly applicable to Linux OpenLDAP and Microsoft Active directory to the latest protocols, for FIPS compliance, and for FQDN/DNS support

Teaching Assistant, Rensselaer Polytechnic Institute – Troy, NY Aug 2018 – May 2019

- Taught fundamentals for 5 courses, including NX, C++, Python, MatLab, and C
- Gave 1-on-1 teaching assistance for debugging embedded C hardware and for debugging software homework assignments

Computer Engineering Intern, Parsons Corporation – Centreville, VA June 2018 – Dec 2018

- Worked on a classified project, utilizing 'git', 'vim', PyCharm, Jira, and Confluence to enhance, mature, and document an offense-oriented Python toolkit
- Strengthened problem-solving and critical thinking skills by designing and documenting offense capabilities using virtual machines, 'nmap', 'bash', and Wireshark on Linux systems
- Collaborated with a team in a high-security environment, learning and applying knowledge in cryptography, networking, and network security
- Adhered to strict security protocols and confidentiality guidelines through the project lifecycle

Education

Rensselaer Polytechnic Institute, MS in Computer and Systems Engineering Jan 2020 – Dec 2020

- GPA: 3.65/4.0

Rensselaer Polytechnic Institute, BS in Computer and Systems Engineering Aug 2016 – Dec 2019

- GPA: 3.5/4.0

Technologies

- **Languages:** Java, Python, Bash, SQL, C/C++, Rust
- **Product Technologies:** REST, Django, vert.x, RxJava, sqlite, Gradle, Docker
- **Security Technologies:** Postman, Burp, Twistlock
- **Development Technologies:** Linux, 'git', 'nmap', 'netstat', VSCode, IntelliJ, Jira, Confluence