

# Forest Wu

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## EDUCATION

### **BS, COMPUTER SCIENCE | GPA: 3.55 | MAY 2022 | UNIVERSITY OF MARYLAND, COLLEGE PARK**

- Presidential Scholar: Merit scholarship provided to select students upon acceptance to university.
- Advanced Cybersecurity Experience for Students (ACES) minor, ACES Honors program: ACES students gain practical cybersecurity knowledge through technical coursework and semester-long group projects.
- Coursework: Algorithms II, Data Structures, Programming Language Paradigms, Computer Systems, Reverse Engineering, Data Analysis & Visualization, Database Design, IoT security, Cybersecurity Forensics

## SKILLS

- Languages: Java, NodeJS, C, python, Ruby, OCaml, Rust, ReactJS, Assembly, C++
- Software: git/github, Unix/Linux, AWS Lambda/S3/EC2, Jenkins, SQL, noSQL, Docker, SumoLogic, Ghidra

## EXPERIENCE

### **SOFTWARE ENGINEERING INTERN | DULLES GLASS | JULY 2020 –AUGUST 2020**

- Created API for existing CRM software, delivering updated information on customer profiles. Provided employees a means to dynamically and efficiently update user permissions of clients.
- Cleaned up essential data in DynamoDB database for CAD product. Wrote validation scripts, formatted JSONS, and ensured data integrity involving serial numbers, sizes, and prices of various glass products.

### **WEB ENGINEERING INTERN | TENABLE | JUNE 2019 – OCTOBER 2019**

- Developed Slackbot for tech support team, streamlining customer information lookup. Formatted UI and response messages through slack API. Handled auth token regeneration and Salesforce API queries.
- Launched [tenable.com/downloads](https://tenable.com/downloads) while on the web team, currently serving 100,000 requests/day. Implemented multiple features such as email blacklists and employee login while adding a full suite of unit/integration tests.
- Published a private package to our corporate npm registry on Nexus Cloud containing commonly used functions between various projects and repos, such as a bearer token validator, shutdown handler, and country locator based on IP.

### **INFRASTRUCTURE INTERN | NOAA | JULY 2017 – AUGUST 2017**

- Collaborated with Raytheon to update NOAA headquarter servers from RedHat Enterprise Linux 6 to RHEL 7 with zero downtime. Unblocked the central servers from receiving critical security updates to run Advanced Weather Interactive Processing System II.
- Prototyped test cases for NOAA's data delivery software, allowing Weather Forecast Offices and River Forecast Centers within the National Weather Service to create ad-hoc or subscription-based weather data requests.

## TECH LEADERSHIP

### **CLUB LEAD| GOOGLE DEVELOPER STUDENT CLUBS | JULY 2020 - NOW**

- Founded the UMD chapter, and recruited a core team of five member from an initial meeting of 40 participants.
- Established relations with local business and guided students through projects that help the community.
- Held technical workshops on Google developer technologies such as flutter and firebase.

### **TEACHING ASSISTANT | APPLIED CYBERSECURITY FOUNDATIONS II | JULY 2020 - NOW**

- Provision and plan a semester-long honeypot project that imitates common targets of cyber attacks using ACES VMs and resources.
- Aid students with configuring a Man-in-the-middle, health monitoring systems, and project management.
- Monitor students' ssh rules, NAT rules, and firewall rules, and other networking for VMs and containers.

### **DATA CLASSIFICATION SERVICE | AMAZON WEB SERVICES | SEPTEMBER 2020 – DECEMBER 2020**

- Collaborate with peers and AWS mentor to design a data classification service that monitors object payloads.
- Develop a systematic API that reverse engineers files to generate an assessment of the type of data.
- Configure load balancer and monitor AWS resources and performance.