# Justin Limberg

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## EDUCATION

**Johns Hopkins University**                                                                                                **Baltimore, MD**
Bachelor of Science in Computer Science                                                                        Expected May 2024
**GPA:** 3.51 • Dean's List
**Certifications:** AWS Certified Cloud Practitioner, AWS Certified Solutions Architect - Associate, AWS Certified Developer - Associate, AWS Certified SysOps – Associate, AWS Certified Security – Specialty, AWS Certified Databases - Specialty

## PROFESSIONAL EXPERIENCE

**Amazon Web Services**                                                                                                           **Herndon, VA**
*Cloud Engineer Intern, National Security Team*                                                               May 2023 - August 2023

- Served as a cloud developer to develop and deliver cloud applications to public agencies that serve the United States national security interests
- Contributed to the development and maintenance of CDK-LoC, an open-source package that contains a suite of NIST80053r-4 compliant AWS CDK constructs meant to streamline the creation/deployment of NIST80053r-4 secure AWS Cloud architecture using both TypeScript and Python
- Constructed a robust, NIST80053-r4 compliant AWS WAFv2 construct, automating the logging process of the WebACL via AWS CloudWatch, and implemented a base set of WebACL rules to defend web applications from most cyber vulnerabilities
    - Vulnerabilities include XSS, DDoS, admin protection, and SQLi
    - Reduced the amount of code required to construct/deploy a NIST80053-r4 compliant WAFv2 by 98%
- Developed and deployed a demo-app using React.js, AWS EC2, CloudFront, and WAFv2 to demonstrate CDK-LoC capabilities to key stakeholders
- Participated in code reviews, ensuring adherence to coding standards and enhancing software maintainability

**Amazon Web Services**                                                                                                           **Herndon, VA**
*Associate Cloud Engineer Intern, National Security Team*                                                May 2022 - August 2022

- Developed a pipeline to streamline the creation of an EC2 image secured to the security standards of the customer
    - Built using AWS Step Functions, S3, Lambda, SNS, API Gateway, and CloudWatch
- Step Functions and Lambda were utilized to automate the pipeline; S3 stored user data scripts as well as pipeline data; SNS, API Gateway, and CloudWatch were used in tandem to notify the user of pipeline statistics and security information
- Wrote shell scripts to harden a Linux OS's network security, operation security, and system security according to CIS best security practices
- Automated the auditing of a Linux OS and network against CIS best security practices, if any security audits failed the user of the pipeline would be notified via email and CloudWatch logs

**Johns Hopkins Information Security Institute**                                                                **Baltimore, MD**
*Research Associate*                                                                                                       May 2021 – May 2023

- Researched into the political and technical impact of cyber-attacks and conflicts around the globe
- Developed a website for a team of Johns Hopkins researchers to construct and post their findings. Front-end built with React and JS. API built with Mongoose and MongoDB used as a NoSQL database for the backend
- Website visited by hundreds of users daily and referenced by publishers of the Wire

## EXTRA CURRICULARS

**Johns Hopkins Athletics**                                                                                                     **Baltimore, MD**
*Varsity Swimmer*                                                                                                               August 2021 - Now

- Maintained competitive GPA will dedicating over 20 hours a week to training
- Contributed to multiple top 8 finishes at the national level in Sophomore and Junior year
- Organized and mobilized athletes across the college by leading team captains meetings, as well as being a part of the Student Athlete Leadership committee

**Stanford University**                                                                                                                  **Remote**
*Code in Place Section Leader*                                                                                      March 2021 – May 2021

- Provided instructional support as a Volunteer Section Leader by leading a weekly discussion section of students in the 5-week Stanford Engineering, Department of Computer Science introductory online Python course
- Worked alongside distinguished instructors ranging from Software Engineers, PHD graduates, and college professors