

Bryce Moskiewicz

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Engineering

Graduation Date: May 2022

GPA: 3.82

University of Pittsburgh

Computer Engineering Department

Attended August 2018 - May 2020

EXPERIENCE

Amazon Web Services

July 2022 – current

(Remote) Chicago, Illinois

Software Development Engineer

- Designed and developed an automated operating system image generation process for Storage Gateway's integration testing framework utilizing Java and Infrastructure as Code via CDK and CloudFormation. This project involved Step Functions, EC2 Image Builder, Lambda, S3, ECS (Fargate), IAM Policies/Roles, and SSM Parameters.
- Designed and implemented a cross-account, cross-region and cross-partition S3 data replication solution in CDK and CloudFormation utilizing Storage Gateway's S3 File Gateway and Data Sync agents. This solution was able to replicate data in S3 across the Government Cloud and China Cloud partitional boundaries into the Classic AWS Partition for further processing by our Project Managers and Data Scientists.
- Developed internal CDK and CloudFormation support for FSx Gateway to be used in performance and integration testing frameworks. Orchestration of the FSx Gateway's resource life cycle is controlled by Step Functions which call various Storage Gateway APIs depending on what the user specifies for the resource in their CDK stack or CFN Template.
- Developed an operating system image release process for Storage Gateway's File S3 base operating system image with service code written in Java and infrastructure written in CDK using SSM Parameters, Step Functions, Lambda, and S3.

Amazon Web Services

May 2021 – August 2021

Boston, Massachusetts

Software Engineer Intern

- Designed and developed network diagnostic tools in Bash and Java for customers to utilize on their Storage Gateways.
- Created an asynchronous multithreaded bandwidth test in Java which reports current upload/download speeds to customers.
- Designed and implemented an interface in Bash for customers to run Linux network diagnostic commands from a limited shell environment.
- Developed a support tool that allows customers to collect diagnostic information on running processes for their Storage Gateways.
- Influenced the Amazon Linux team to add the open-source EC2 Rescue For Linux package to Amazon Linux 3 on release.

U.S. Steel

January 2020 – January 2021

Pittsburgh, Pennsylvania

Software Engineer Intern

- Created full stack web applications utilizing XML, JavaScript, and CSS for UI/UX design, as well as C#/.NET and SQL for backend development.
- Created an application that allows users to query for Shipments and Materials based on a total of 70 separate search criteria. Users can then select and compare the returned Shipments and Materials in more detail.
- Created an application that allows users to search for Referrals based on 8 separate criteria and then make changes to those referrals if they have permission to do so.
- Developed a feature within US Steel's security application which limits application access to specific teams.

University of Pittsburgh

August 2019 – May 2020

Pittsburgh, Pennsylvania

Honors Engineering Teacher's Assistant

- Collaborated closely with the professor of an Honors Engineering course to best stimulate the growth and development of nearly 100 students each semester.
- Hosted 4 office hours every week, graded exams, quizzes, and homework, as well as occasionally gave lectures.

PROJECTS

Personal Website

- Please visit my website (https://brycemosk.github.io/Personal_Website/) to find out more about my projects, and myself.

SKILLS

- CDK, CloudFormation, AWS, Java, C#, SQL, TypeScript, JavaScript, CSS, Bash, Python, C, C++, .NET, Git/GitHub