

# KATE HAROLD

Fairfax Station, Virginia

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## EDUCATION

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**Virginia Tech**, Blacksburg, VA  
Bachelor of Science in Computer Science  
GPA: 3.48/4.00  
Dean's List: Fall 2017, Spring 2019, Fall 2019

*Expected Graduation: December 2020*

## TECHNICAL SKILLS

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Java, C, Python, HTML, JavaScript, CSS, SQL, ReactJS, JSON, Linux CLI, GitHub

## WORK EXPERIENCE

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**Technical Intern**, BAE Systems Inc

*June 2020 - Present*

- Updated a mail and records tracking web application from Struts 1 to Struts 2 by modifying xml configuration files.
- Wrote JavaScript functions that connected the front end to the back end Action classes for database access.
- Created front end modals and calendar functionalities using Bootstrap and jQuery.

**Software Development Intern**, Freddie Mac

*May 2019 - August 2019*

- Strengthened technical and professional skills working with software development team.
- Gained experience in RapidSQL, Spring Boot, and Java.
- Analyzed and documented legacy batch jobs to support loan evaluation and validation.

## PROJECTS

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**Extensible Shell**

*Spring 2020*

- Designed an extensible shell that handled built-in commands, signal handling, pipes, and I/O redirection.
- Wrote custom signal handlers to manage processes' access to the terminal.
- Implemented custom plugins such as an Auto Key cipher and a decimal to binary converter.

**Fork-Join Threadpool**

*Spring 2020*

- Implemented a Threadpool to complete large tasks by utilizing multi-threading, locks, and semaphores.
- Designed the Threadpool to allow threads to access data from other threads through signaling.

**Personal Website**

*July 2020 - Present*

- Built and maintain a React web app hosted on AWS Amplify Console.
- [www.kate-harold.com](http://www.kate-harold.com)

## ACTIVITIES AND LEADERSHIP

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**Events Coordinator**, Investing Club

*January 2019 - January 2020*

- Coordinated with six other students to create an organization to promote investing and broader financial literacy.
- Planned and scheduled meeting dates and was the main point of communication for members.
- Researched finance topics and led discussions for club meetings.