

Haley P. Currence

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<https://github.com/HCurrence>

Objective

Animated Computer Scientist looking for a full-time, internship, or co-op opportunities working with/in Mixed Reality/Augmented Reality Development or the development of Interactive Technologies.

Education

VIRGINIA COMMONWEALTH UNIVERSITY | Richmond, VA Jan. 2021-May 2023
Bachelor of Science: Computer Science, Minor: Computer Engineering GPA: 3.32
UNIVERSITY OF NORTH CAROLINA CHARLOTTE | Charlotte, NC Aug. 2018-Aug. 2019
Bachelor of Science: Computer Science, Minors: Spanish & Computer Engineering GPA: 3.40
Concentration: Robotics, AI, and Gaming
CHRISTOPHER NEWPORT UNIVERSITY | Newport News, VA Aug. 2015-Nov. 2017
Bachelor of Science: Computer Engineering & Computer Science, Minors: Spanish & Leadership Studies GPA: 3.24

Skills

Programming Languages: Java (10+ years) | Python | C/C# | Ruby | Linux Bash | Windows Powershell

Technical Skills: Unity | GitHub/GitLab | Confluence | Sharepoint | Jira | Microsoft 365 | Linux and Windows Operating Systems

Soft Skills: Willing to Learn | Adaptable | Leadership and Management Experience | Sales Experience

Professional Experience

VIRGINIA COMMONWEALTH UNIVERSITY - RESEARCH ASSISTANT | Richmond, VA May 2022-Present

- Designed and developed Mixed Reality applications for Microsoft's Hololens 2
- Analyzed previously unknown robotic systems and wrote technical documentation for future lab use
- Assisted in current research on the precision of Mixed Reality interfaces

REX ACADEMY - OPERATIONS MANAGER AND INSTRUCTOR | Remote Aug. 2020-Nov. 2021

- Applied sales tactics in B2C and B2B sales and customer service and support campaigns
- Taught classes in Scratch, Mobile App Development, Java, and Python with a team of instructors
- Enacted curriculum changes and applied voice talents to video lessons
- Trained teachers across the United States in Computer Science and Rex Academy's teaching platform

FEDERAL RESERVE BANK OF RICHMOND - IT INTERN | Richmond, VA June 2020-Aug. 2020

- Fashioned documentation and draft production processes using Confluence and Sharepoint
- Used Ruby, Linux Bash, Windows Powershell, and GitLab to create Puppet tasks and spec test module manifests
- Refined team production analytics for better management review

REX PROGRAMMING - LOCATION MANAGER AND INSTRUCTOR | Concord, NC Dec. 2018-Dec. 2019

- Taught the fundamentals of programming and robotics to children ages 4-16
- Maintained and facilitated the office upkeep
- Organized marketing and sales campaigns
- Devised and redesigned lesson plans in various subjects pertaining to Computer Science and Engineering

CHRISTOPHER NEWPORT UNIVERSITY - RESEARCH SCHOLAR | Newport News, VA Summer 2017

- Gained practical knowledge and use of Linux and the Robotic Operating System (ROS)
- Modified a Turtlebot robotic system to use a LIDAR-Point Cloud system for robot guidance and pathfinding

Current Development Projects

Friends of the Pump House AR Application (Senior Capstone Project) Fall 2022-Present

- Directed, designed, and developed an augmented reality application to display holograms of since-removed machinery in the Byrd Park Pump House

Mixed Reality Artifact and Monument Showcase Fall 2022-Present

- Designed and developed a mixed reality editor that allowed users to place and view holographic artifacts and monuments in real-world spaces.

Past Development Projects

Desktop Application for Software Engineering Course Fall 2020

- Led a small team in developing a desktop application using service-oriented architecture
- Designed and developed a service broker to manage team-built stubs and services
- Composed unit-testing and harnesses for application development

Unit/Spec Testing for the Federal Reserve Bank

Summer 2020

- Refined and developed automated testing for existing server processes
- Wrote documentation for future employees on the development process

Artificial Intelligence and TicTacToe

February 2019

- Designed and implemented an artificial intelligence agent and environment in which the user plays a game of TicTacToe against the computer player

Leadership and Activities**GAME DEVELOPMENT LEARNING CLUB - PRESIDENT/FOUNDER** | Newport News, VA

Jan. 2017-Dec. 2017

SOCIETY OF WOMEN ENGINEERS - PRESIDENT/FOUNDER | Newport News, VA

Jan. 2016-Dec. 2016