

Timothy Shee

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EDUCATION

Middlesex Community College – Bedford, MA
GPA: 4.0 / 4.0

Aug 2018 - Aug 2019

University of Massachusetts Amherst – Amherst, MA
GPA: 3.6 / 4.0
Senior - Computer Science Undergraduate

Aug 2019 - Present
Graduation: May 2021

SKILLS

Programming Languages: Java, Python, JavaScript, Ruby, Batch, Powershell, Bash

Technical Work: Git, React, SQL, Gradle, REST API, HTML5, CSS3, MongoDB,

DevOps / Automation Work: Jenkins, Docker, unittest & Nose, jUnit, Mocha/Chai

Operating Systems: Windows, Linux (CentOS 7, RHEL, Ubuntu), Microsoft WSL, VirtualBox

EXPERIENCE

RSA Security – SA Quality Engineering Intern

Jun - Jul 2020

- Reduced deployment time from manual 2 weeks to 2 hours for lua parser content by writing CD Jenkins Pipeline to automate testing/deploying threat content with Python scripts to find new content from LibHQ, aggregate Python Nostest XML reports, and deploy to production
- Automated Jira (& Zephyr) movement using GitHub & Jira REST API in pipeline. Tickets automatically moved to Ready for Release or In Development depending on test results.
- Utilized CentOS 7, OAuth2.0, Jenkins Plugins, & vSphere for VMs to setup pipelines

RSA Security – SA Quality Engineering Intern

May - Aug 2019

- Developed Python regression tests for 31 manually tested ESA Rules which use ContextHub data sources, a new feature of 11.2 release. Added regression to daily build in Jenkins & automatic import of ContextHub lists and enrichment sources functionality to UniTe framework.
- Enhanced Ruby stack configuration (dataconfig) tool by writing new deploy live content function
- Automated deploying rules from Live and local disk with DaaD tool using custom JSON config
- Utilized Git, Agile & Jira to develop with a team & Linux/MongoDB to debug correlation service

Avid Technology - Software Engineering Intern

Aug 2018

- Implemented Powershell scripts to migrate source trees from AccuRev to GitLab. These scripts reduced source tree from 20 GB to 1.9 MB by moving binaries to an internal Nexus server and generated Gradle properties files that contained GAV info to download from Nexus at runtime.
- Developed CD Jenkins pipelines and executors to download nightly builds from staging internal server and run Windows Batch scripts automatically to execute installers for 3 Avid services.
- Utilized GitLab, VirtualBox (CentOS 7), and PuTTY to setup CI with runner and test migration

PROJECTS

HackUMass - University of Massachusetts at Amherst

Oct 2018

- Achieved top 3 finalist of 121 teams and 1000 hackers. Collaborated with 3 people using Leap Motion, Python, Flask, Flask-SocketIO, JavaScript for a motion activated music controller.
- Registered certain hand gestures as media commands: play/pause, skip track, control volume. Flask websocket forwarded current command info on Leap Motion to JS UI for client session.

Personal Bank Tool

Sept - Oct 2018

- Programmed a webapp banking tool. React UI for users to call REST API endpoints written in Java / Jersey to read/write to the SQL database through the Microsoft JDBC driver.
- The interface shows a summary report of all balance changes (income/expenses) through generating a color-coded summary table, line graph, and income/expenses pie charts.