Timothy Shee

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EDUCATION

Middlesex Community College – *Bedford, MA* Aug 2018 - Aug 2019
  GPA: 4.0 / 4.0

University of Massachusetts Amherst – *Amherst, MA* Aug 2019 - *Present*
  GPA: 3.6 / 4.0 Graduation: May 2021
  Senior - Computer Science Undergraduate

SKILLS

Programming Languages: Java, Python, JavaScript, Batch, Powershell, Bash
Technical Work: Git, React, SQL, Gradle, REST API, MongoDB, HTML5, CSS3
DevOps / Automation Work: Jenkins, Docker, nose, jUnit
Operating Systems: Windows, Linux (CentOS 7, RHEL), WSL, VirtualBox

EXPERIENCE

SA Quality Engineering Intern – *RSA Security* 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 Nosetest 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.
  • Used CentOS 7, OAuth2.0, Jenkins Plugins, & vSphere for VMs to setup pipelines

SA Quality Engineering Intern – *RSA Security* May - Aug 2019
  • Created new 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.
  • Added new Ruby functionality for stack configuration (dataconfig) tool to deploy live content
  • Wrote JSON for DaaD to automate hardening: deploy rules from Live and local custom content
  • Used Git, Agile & Jira to develop with a team & Linux/MongoDB to debug correlation service

Software Engineering Intern – *Avid Technology* 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.
  • Created 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.
  • Used 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.