

Timothy Shee

tim.shee0791@gmail.com | 978-399-9164 | timothy-shee.github.io/My-Website/

EDUCATION

Middlesex Community College – Bedford, MA

Aug 2018 - Aug 2019

GPA: 4.0 / 4.0

University of Massachusetts Amherst – Amherst, MA

Aug 2019 - Present

Junior - Computer Science Major

GPA: Not yet available

SKILLS

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

Technical Work: SQL, Jenkins, Git, Gradle, VirtualBox, junit, unittest, REST, React, Flask, HTML5

Operating Systems: Windows, Linux (CentOS 7, RHEL), Android

EXPERIENCE

SA Quality Engineering Intern – RSA Security

May - Aug 2019

- Wrote new Python regression tests for 31 manually tested ESA Rules which use ContextHub data sources, a new feature of the 11.2 release. Added regression to daily build in Jenkins & automatic import of ContextHub lists and enrichment sources functionality to UniTe framework.
- Wrote Ruby functionality for Data As A Deliverable (dataconfig) tool to deploy live content
- Created JSON threat content scenarios for dataconfig tool to automate hardening process: deploying pre-packaged threat content from Live and custom content from a local directory.
- 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 generating Gradle properties files to download at runtime. Tested the migration by hosting a private GitLab server with a CentOS 7 VM on VirtualBox and set up CI to test the build.
- Created Jenkins pipelines and executors to download nightly builds from internal server and run Windows Batch scripts automatically to test the installers.

PROJECTS

LexHack: Movie Web Scraper

Nov 2018

- Designed a web scraper server with Python to analyze HTML pages from IMDB website. Display movie list in webapp with JavaScript through REST API exposed through Flask server.

Personal Enrichment Project: Popular API webapp

Nov 2018

- Implemented webapp to use Youtube, Google Map/Calendar, and Affectiva's emotion recognition API. Able to use a webcam to see Affectiva interpreting their emotions in real-time.

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.
- Ensured certain hand gestures are registered as media commands such as play/pause, skip track, and control volume. Commands are shown on a browser by opening websocket to Flask server and displaying results with JavaScript to each 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.