# TIMOTHY SHEE

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## OBJECTIVE

To obtain a challenging and rewarding software engineer position where a degree in computer engineering and 3 years of experience as a programmer will be fully utilized.

## EXPERIENCE

Creaticles - *Contract Work* Jan 2022

- Developed voting platform DApp by deploying smart contract to Ethereum Test Network with Next.js app hosted on Vercel and MongoDB Atlas data storage. Developed smart contract with Ether.js and Hardhat.js and exposed backend with Next.js serverless functions.

Dell EMC - *Software Engineering 1* May 2021 - *Present*

- Migrated time series similarity microservice from R to Python for license compliance. Time Series Similarity enables resources in contention, top contributors, and other features
  - Investigated legacy R microservice - documenting methods and related microservices
  - Created Python common library and integrated into existing Python microservice and deprecated R microservice
  - Validated Python common library results against legacy R microservice by writing performance test using Product data of 1000 systems.
  - Displayed aggregated data with pandas, Elasticsearch, and Kibana
- Designed Selenium test automation system to detect environmental failures then re-start and re-configure all required data processors to resolve microservice dataprep failures
- Maintained integration tests E2E framework built with Java, Maven, and Selenium

RSA Security - *Quality Engineering Intern* Jun - Jul 2020

- Reduced content deployment from 2 weeks to 2 hours with Jenkins & Python by automating polling new internal content, aggregating Nosetest XML reports & deploying to PRD

RSA Security - *Quality Engineering Intern* May - Aug 2019

- Developed test suite in Python Nosetest framework for 31 manually tested rules & added suite to Jenkins daily build. Used a CentOS 7 VM & MongoDB to verify test results

Avid Technology - *Software Engineering Intern* Jul - Aug 2018

- Wrote Powershell script to reduce source code from 20 GB to 1.9 GB by moving binaries to internal Nexus server & using GAV Gradle properties files to download at runtime

## SKILLS

| | |
|---|---|
| Languages | Java, Python, JavaScript (Node.js), Powershell, Bash |
| Technologies | Git, Jenkins, Docker, Maven, Gradle, Webpack, Swagger, MongoDB Atlas Windows, Linux, WSL 2, VirtualBox, Vagrant |
| Collaboration | Agile, Jira, Slack bots, Office 365 |

## PROJECTS

HackUMass Oct 2018

- Achieved top 3 finalist of 121 teams and 1000 hackers by building a motion activated music controller with 3 people using Leap Motion, Python, Flask, Flask-SocketIO, JS
- Registered hand gestures as commands and Flask-SocketIO sent info to Leap Motion

## EDUCATION

University of Massachusetts Amherst May 2021

- Bachelor’s Degree in Computer Science - GPA 3.6 / 4.0