

# Thien Tran

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## EDUCATION

### University of New Orleans

*Bachelor of Science in Computer Science - GPA: 3.99/4.00*

August 2019 - December 2021

*New Orleans, LA*

## SKILLS

<b>Languages</b>	Python, Java, Go, HTML, CSS, JavaScript, SQL
<b>Technologies</b>	Git, REST APIs, Unity, Jupyter Notebook
<b>DevOps</b>	Amazon Web Services (AWS), Terraform, GitHub Actions, Docker, Kubernetes
<b>Certifications</b>	AWS Solutions Architect - Associate, AWS Cloud Practitioner

## EXPERIENCE

### Venmo

*Software Engineer*

August 2022 - Present

*Austin, TX*

- Saved the company \$1,142,000 annually by replacing an unoptimized, continuously running metrics collection process with an optimized, aggregation interval algorithm using Python and AWS Elastic Kubernetes Service.

### Venmo

*Software Engineer Intern*

May 2022 - August 2022

*Austin, TX*

- Improved fault-tolerance of synthetic testing systems of 4 classes of self-hosted GitHub Actions runners by creating a failure recovery script using Python and GitHub APIs that detects and recovers workflow scheduling failures.
- Enabled 24x7x365 reliability of GitHub Actions synthetic tests by deploying failure recovery script to AWS Lambda using Terraform which triggers every 5 minutes, recovers up to 25 failures a day, and only costs \$0.57 a month.
- Provided better infrastructure observability by designing and developing a scalable, high performance microservice using Python, Flask, Docker, AWS Elastic Kubernetes Service, and AWS DynamoDB which processes GitHub webhooks and delivers 11 key metrics about workflow jobs currently running across Venmo's 1200+ repositories.

### USAA

*Software Engineer Intern*

May 2021 - July 2021

*Plano, TX*

- Reduced cluttering of a qTest archive by 84% and allowed for easier feature-based auditing by designing a new directory structure for publishing automated infrastructure test results that affected 70 projects.
- Enabled automatic AWS resource tagging on one parameter if not provided by a developer or optional manual tagging otherwise by modifying a custom Terraform provider utilized by 55 projects using GoLang.
- Decreased the cost of conducting network connectivity testing on AWS EC2 instances by 92.38% by developing a selection of 5 AWS Systems Manager (SSM) testing automations using Bash, Terraform, and GitLab CI/CD, saving the company \$56,700 annually in lost wages and productivity.

## PROJECTS

### Stocks Simple Moving Average | *Python, Amazon Web Services*

- Built an AWS pipeline that computes the Simple Moving Average (SMA) of historical OHLC-type stocks.
- Created the cloud infrastructure using the AWS Python SDK (Boto3) to automatically initialize and connect two S3 buckets, two Lambda functions, one SNS topic, and one DynamoDB NoSQL database table.
- Decreased the time it takes to acquire the SMA of an input file by 99.87% compared to manual calculation.

### Warframe Inventory Market Info | *Python*

- Developed a program that automatically gathers 4 different economic attributes about users' in-game Warframe inventory items, saving users about 52 seconds of work per item page compared to manual calculation.
- Generated a list of users' inventory items using OpenCV to isolate item names from the inventory-screen image by thresholding the text colors, and using PyTesseract to read and save the remaining text.
- Enabled better investment decisions and comparisons by collecting the average currency price of the 10 current cheapest live web market value sell-orders using the warframe.market API for each item in users' inventory.