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This resume was updated using continuous integration through a GitHub Actions Workflow and Overleaf Git Sync. Check it out here: https://github.com/thienlongtran/resume-update-overleaf-sync



# Thien Tran

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#### EDUCATION

### University of New Orleans

August 2019 - December 2021

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

New Orleans, LA

## SKILLS

Languages
 Technologies
 Libraries
 Python, Java, Go, HTML, CSS, JavaScript, SQL
 Git, REST APIs, Unity, Jupyter Notebook
 NumPy, Pandas, Matplotlib, Scikit-learn

**DevOps** Amazon Web Services (AWS), Terraform, GitHub Actions, Docker, Kubernetes

Certifications AWS Solutions Architect - Associate, AWS Cloud Practitioner

#### EXPERIENCE

Venmo
Software Engineer

May 2022 - Present
Austin. TX

• Saved company \$1,242,700 annually in compute and data transfer costs by identifying an unoptimized, continuously running metrics collection process and helping replace it with an interval aggregation algorithm using Python.

- Established visibility into cost areas and optimization possibilities for \$14,400,000 worth of enterprise CI/CD jobs annually by integrating GitHub Actions Observability API with DataDog cost metrics using Python.
- Led a project to improve GitHub Actions observability by designing and developing a proprietary, scalable, high performance microservice using Python, Flask, Docker, AWS Elastic Kubernetes Service, AWS DynamoDB, and DataDog which delivers 14 key real-time metrics about active workflow jobs across Venmo's 1,200+ repositories.
- Enabled 24x7x365 reliability of GitHub Actions synthetic tests, recovering up to 25 failures daily, by developing a failure recovery script using Python and deploying it to AWS Lambda using Terraform.
- Fostered knowledge sharing, collaboration, and improved platform infrastructure availability and reliability by
  joining on-call and platform engineering support rotations.

#### **PROJECTS**

#### NBA Totals Investment w/ Machine Learning | Python, XGBoost

- Generated 13.62% portfolio return per month with a 2.42 Sharpe Ratio by developing an NBA Sports Betting Strategy on Totals Market's daily Over/Under (OU) Lines using a configuration of 2.5% of portfolio per trade.
- Trained an XGBoost model to predict OU results with 54.3% accuracy, gaining an expected 3.66% return per bet.
- Enabled real-time trade monitoring by integrating DataDog with live scores and FanDuel's OU Line movements.

#### 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 calculate SMA by 99.87% compared to manual calculation.

#### Warframe Inventory Market Info | Python, OpenCV, PyTesseract

- 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.