

Thien Tran

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SKILLS

Languages	Python, Java, Go, HTML, CSS, JavaScript, SQL
Technologies	Git, REST APIs, Unity, Jupyter Notebook
Libraries	Django, 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 <i>Software Engineer</i>	May 2022 - Present <i>Austin, TX</i>
<ul style="list-style-type: none">• Saved company \$1,142,700 annually in compute and data transfer costs by identifying an unoptimized, continuously running metrics collection process and decreasing the average run-time per job by 96.4%.• Led a project to improve internal CI/CD 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.• Assumed responsibilities of Venmo's Site Reliability Engineering team including networking, cluster maintenance, observability, operation efficiency and stability, and incident response management services.• Educated dozens of Platform Infrastructure and Site Reliability Engineers to support GitHub Actions during on-call rotations by creating an introductory course to Venmo's CI/CD infrastructure and observability.• 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.• 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 <i>Python, XGBoost</i>	
<ul style="list-style-type: none">• 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 <i>Python, Amazon Web Services</i>	
<ul style="list-style-type: none">• 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 <i>Python, OpenCV, PyTesseract</i>	
<ul style="list-style-type: none">• 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.	

EDUCATION

University of New Orleans <i>Bachelor of Science in Computer Science</i>	August 2019 - December 2021 <i>GPA: 3.99/4.00</i>
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