

# Thien Tran

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## EDUCATION

### Georgia Institute of Technology

January 2022 - December 2023 (Expected)

*Master of Science in Computer Science - GPA: 4.0/4.0*

*Atlanta, GA*

- **Coursework:** Knowledge-Based AI, Machine Learning for Trading

### University of New Orleans

August 2019 - December 2021

*Bachelor of Science in Computer Science - GPA: 4.0/4.0*

*New Orleans, LA*

- **Leadership:** Google Developers Student Club (DSC Lead), Toastmasters (President), SGA (Senator)
- **Coursework:** Data Structures & Algorithms, Algorithm Analysis, Python for Data Science & Artificial Intelligence, Database Management Systems, Cloud Computing, Computer Networks, Operating Systems

## SKILLS

<b>Languages</b>	Python, Java, HTML, CSS, JavaScript, SQL
<b>Technologies</b>	Git, Unity, Jupyter Notebook
<b>Libraries</b>	NumPy, Pandas, Matplotlib, scikit-learn
<b>DevOps</b>	Amazon Web Services (AWS), Terraform, GitHub Actions
<b>Certifications</b>	AWS Solutions Architect - Associate, AWS Cloud Practitioner

## EXPERIENCE

### PayPal

May 2022 - August 2022

*Software Engineer Intern (DevOps)*

*Austin, TX*

- Joined Venmo, a PayPal service, for an exciting and enriching internship for the Summer of 2022!
- Improved fault tolerance of Datadog synthetic testing metrics collection of 4 classes of internal GitHub Actions runners by automating checking and recovery of workflow failures using Python, GitHub APIs, and AWS Lambda.

### USAA

May 2021 - July 2021

*Software Engineer Intern (DevOps)*

*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 Terraform and GitLab CI/CD.

### University of New Orleans

January 2021 - May 2021

*Undergraduate Research Assistant*

*New Orleans, LA*

- Developed immersive eXtended Reality (XR) games using Unity and C# under advisement of Dr. Farjana Eishita to discreetly detect 8 types of cognitive distortions and other mental health conditions.
- Converted 42 scenes of an existing cognitive distortion detection game manually from Augmented Reality (AR) to Mixed and Virtual Reality (MR & VR) for player-experience (PX) comparisons between platforms.
- Conducted moderated PX testing on 9 individuals to identify bugs and ensure effective game-play engagement.

## PROJECTS

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

- Developed 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 inventory items using OpenCV to isolate item names from the inventory-screen image by thresholding the text colors, and by 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 the generated item list.