

# Thien Tran

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## EDUCATION

### Georgia Institute of Technology

Jan. 2022 - Dec. 2023 (exp.)

*M.S. Computer Science*

*(Online) Atlanta, GA*

- **Current Courses:** Knowledge-Based AI

### University of New Orleans

Aug. 2019 - Dec. 2021

*B.S. Computer Science, 3.99 GPA*

*New Orleans, LA*

- **Relevant Coursework:** Data Structures and Algorithms, Algorithm Analysis, Python for DS & AI, Database Management Systems, Cloud Computing, Computer Networks, Operating Systems, Software Design I & II (Java)

## SKILLS

**Languages:** Java, Python, HTML/CSS, JavaScript, SQL

**Technologies:** Git, Unity, Jupyter Notebook

**Libraries:** NumPy, Pandas, Matplotlib, scikit-learn

**DevOps:** Amazon Web Services (AWS), Terraform, GitLab CI/CD

**Certifications:** AWS Solutions Architect - Associate, AWS Cloud Practitioner

## EXPERIENCE

### Incoming Software Engineer Intern (DevOps)

May 2022 - Aug. 2022

*PayPal/Venmo*

*Austin, TX*

### Software Engineer Intern (DevOps)

May 2021 - Jul. 2021

*USAA*

*Plano, TX*

- Innovated a new directory structure for publishing automated infrastructure test results of 70 projects to an archive using GitLab CI/CD pipelines which allowed for easier feature-based auditing and reduces cluttering by 84%.
- Modified a custom Terraform provider affecting 55 projects using GoLang to allow for automatic AWS resource tagging on one parameter if not provided by a user, or manual tagging otherwise.
- Developed a selection of 5 AWS Systems Manager (SSM) documents and automation using Terraform and GitLab CI/CD which reduced the time it takes to conduct network connectivity testing from 3-4 hours with 2-3 engineers to 35-45 minutes with a single engineer.

### Undergraduate Research Assistant

Jan. 2021 - May 2021

*University of New Orleans*

*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 from Augmented Reality (handheld phone-based) to Mixed and Virtual Reality (head-mounted display) for player-experience comparisons.
- Conducted early-stage player-experience testing on 9 individuals to identify bugs and verify effective game-play engagement.

## PROJECTS

### Stock Simple Moving Average Pipeline | AWS, Python

- Developed an AWS cloud-based pipeline that computes the simple moving average of one of the four OHLC-type stock prices from a CSV input file of stock data.
- Created the cloud infrastructure using the AWS Python SDK (Boto3) by automatically initializing and connecting two S3 buckets, two Lambda functions, one SNS topic, and one DynamoDB NoSQL database table.
- Computed the aggregate simple moving average automatically, decreasing the time it takes to acquire this information from each input file by 99.997%+ compared to manual calculation.

### Warframe Inventory Market Info | Python

- Developed a program that gathers 4 different attributes about users' in-game Warframe inventory items, decreasing the time it takes to gather relevant data by 98.667% per item page compared to manual calculation.
- Generated a names-list of 358 types of items automatically using OpenCV to isolate item names from the inventory-screen image by thresholding the text colors, and using PyTesseract to read the remaining text.
- Collected the average platinum price of the 10 current cheapest live web market value sell-orders using the warframe.market API for each item in the generated names-list.