

# Thien Tran

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## EDUCATION

### Georgia Institute of Technology

January 2022 - December 2023 (Expected)

*Master of Science in Computer Science*

*Atlanta, GA*

- **Relevant Coursework:** Knowledge-Based AI

### University of New Orleans

August 2019 - December 2021

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

*New Orleans, LA*

- **Leadership:** Google Developers Student Club (DSC Lead), Toastmasters (President), SGA (Senator)
- **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

May 2022 - August 2022

*PayPal*

*Austin, TX*

- Joining PayPal for an exciting, enriching, and character-building experience this upcoming summer!

### Software Engineer Intern (DevOps)

May 2021 - July 2021

*USAA*

*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 EC2 instances by 92.38% by developing a selection of 5 AWS Systems Manager (SSM) testing automations using Terraform and GitLab CI/CD.

### Undergraduate Research Assistant

January 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 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

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

- Developed an AWS cloud pipeline that computes the simple moving average of historical OHLC-type stock prices.
- 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 an input file by 99.97% compared to manual calculation.

### Warframe Inventory Market Info | Python

- Developed a program that automatically gathers 4 different attributes about users' in-game Warframe inventory items, saving users about 52 seconds of work per item page compared to manual calculation.
- Generated lists 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.