# /ITEJ IYER

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### Education

## Pennsylvania State University

State College, PA

Bachelors of Science in Computer Science, Minor in Mathematics: 3.81 GPA

January '21 - May '24

- Selected Coursework: Data Structures and Algorithms, Computer Organization and Design, Blockchain Programming, Web-Based Applications, Probability Theory, Game Theory, Deep Learning and Computer Vision, Quantum Information Theory
- Awards: Sparks Medal (4.0 GPA maintained till Junior Year)

#### Skills

Languages: Python, Java, Lua, JavaScript, Go, C#, MIPS Assembly, C++, HTML, CSS

Developer Tools: Unity, Git, OOP, Databases, MySQL, Latex, Postman

Technologies/Frameworks: JDBC, JavaFX, Swing GUI, Keras, Tensorflow, Scikit-learn, Loopback

Certifications: AWS Certified Cloud Practitioner

Other Skills and Interests: Trilingualism (English-Hindi-Tamil), Currently learning Russian, Leadership, Writing, Public Speaking, Self-Taught Guitar and Bass, Badminton, Powerlifting

## Experience

Valuefy Remote

Software Engineering Intern

May '23 - August '23

- Converted part of wealth analysis codebase from Monolithic architecture to Microservice architecture using Loopback 3.x, reducing downtime for updates by about 60%
- Decreased project review time by about 70% by automating presentation creation using Python, Matpholib and Hicharts to provide quick data insights
- Integrated multiple APIs into the trading codebase including GTN and Alpaca, and tested the same using Postman

#### RERC on AAC at Penn State

State College, PA

Capstone Team Lead

August '23 - Present

- Integrated an image recognition model into a Unity app to provide real-time object recognition via device camera
- Developed a marker system in AR to guide users from one GPS co-ordinate to another
- Managed 4 other team members' workflows using Trello and Git

#### Pennsylvania State University

State College, PA August '22 - Present

Guided Study Group Leader

- Facilitated revision lectures for Calculus 2, while working alongside the Mathematics department
- Created custom slides, Manim animation and worksheets for students
- Organised exam reviews for each major exam, with upwards of 400 students in attendance with the average attendee's test scores being 12% higher than non-attendees

## Pennsylvania State University

State College, PA

Learning Assistant

May '21 - Present

- Assisted professors by preparing course materials, conducting office hours for doubt clearing and grading
- Courses: Classical Mechanics, Discrete Math for Computer Science, Programming Language Concepts and Construction

# Personal Projects

Tweet Emotion Recognizer

December '22

\* Implemented an NLP model which predicts the contextual emotion of a tweet.

\* Created a Tokenizer, Lexer, and Top-down Parser for a custom programming language written in Go

May '23

## Blockchain Server-Client Node

\* Designed a mockchain, and implemented the corresponding server-client node in JavaScript

April '22

## **MDADM Linear Device**

November '22

\* Implemented a storage device using JBOD architecture in Linux that has read/write capability and basic networking

## GUI Based Etch-a-Sketch

November '22

\* Recreated an "Etch-A-Sketch" using DOMS manipulation and standard JS libraries.