# **Tuneer Roy**

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#### **EDUCATION**

#### **University of Pennsylvania**

Philadelphia, PA

Bachelor of Science in Engineering, Computer Science; GPA: 4.0/4.0

Expected May 2025

Coursework: Programming Languages and Techniques I & II; Automata, Computability, and Complexity; Introduction to Computer Systems; Artificial Intelligence; Multivariable Calculus; Linear Algebra

## **Montgomery Bell Academy**

Nashville, TN

High School Diploma; GPA: weighted – 5.21/5.25, unweighted – 4.0/4.0

May 2021

Honors & Achievements: National Merit Scholar; US Presidential Scholar Candidate; Eagle Scout; Team Captain of Robotics Team & Mock Trial Team; President of CS Club, NHD Club, & MUN/YIG

#### **WORK EXPERIENCE**

## **University of Pennsylvania**

Philadelphia, PA

Teaching Assistant
Fall 2022: Automata, Computability, and Complexity (140+ students)

• Hold office hours, grade assignments, lead review sessions, proctor exams

## **University of Pennsylvania**

Philadelphia, PA

Research Assistant

May 2022 – August 2022

September 2022 – Present

- Developed dashboard to help research team track smart contracts on the Ethereum blockchain using <u>React</u>, <u>Express</u>, <u>MongoDB</u>, <u>TypeScript</u>, and <u>BigQuery</u>
- Automated fuzzing programs to expedite team's analysis of smart contracts by over 75%

#### Steppingstone Scholars, Inc.

Philadelphia, PA

Instructor

October 2021 – May 2022

- Developed lesson plans and prepared students for the Java-based AP Computer Science A exam
- Taught data structures, sorting algorithms, and object-oriented program design to 10+ students biweekly

# **Vanderbilt University**

Nashville, TN

Research Assistant

June 2019 – August 2019

- Identified potential technical solutions to the Adverse Childhood Experiences issue
- Produced a website in <u>PHP</u> and <u>SQL</u> that implemented Vanderbilt's Pediatrics ACEs Algorithm and automated responses to parents to improve their child disciplining techniques

## **OTHER PROJECTS**

### Penn Labs | Penn Mobile

February 2022 – Present

- Developing the <u>Django</u> REST backend for the Penn Mobile application with over 8000 monthly users
- Implementing features such as external push notifications sent by other Penn Labs applications

# Perspecio

May 2020 – July 2020

- Created a single-person endless-runner game in <u>C#</u> using the Unity game engine
- Coded an <u>HTML</u>, <u>CSS</u>, and <u>JavaScript</u> website to hold a WebGL version of the game
- Built a leaderboard system using scripts written in PHP and SQL

#### **TECHNICAL SKILLS**