Nikhita Subbiah

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EDUCATION

Carnegie Mellon University | Pittsburgh, PA

B.S. in Computer Science, Additional Major in Computational Biology
Expected Graduation: May 2022 | GPA: 3.78
Dean's List: Fall 2018, Fall 2019 (with High Honors)

West Windsor Plainsboro High School North | Princeton, NJ

Salutatorian
Unweighted GPA: 3.91 | Weighted GPA: 4.81

WORK EXPERIENCE

Carnegie Mellon, Pittsburgh PA | Teaching Assistant

August 2019 – Present
Serve as teaching assistant for introductory functional programming class. Lead and teach labs of about 15 students and hold weekly office hours. Assist with creating new course content, grading student work, and infrastructure.

AmerisourceBergen, Chesterbrook PA | Data Security Intern

June 2019 – July 2019
Utilize Netskope and Microsoft 365 Data Loss prevention software to monitor alerts. Use Python (pandas library) to create a program to find events linked to users containing specific keywords.
Lead creation of capstone report on the data uses of different business units within AmerisourceBergen presented to Information Security team.

PROJECTS

Population Dynamic Modelling April 2019

Created a simplistic model of population dynamics with predator and prey populations in Java. Used game theory principles to model reproduction and the creation of new generations.

Carcassonne November 2019

Programmed the game Carcassonne in Java and created a GUI to play the game. The programming design made use of many design patterns as well as good software programming principles.

Verified SAT Solver April 2020

Programmed a SAT Solver that used unit propagation and assigned pure literals truth values immediately. Wrote lemmas and predicates to prove the code with automated verifiers.

EXTRACURRICULAR ACTIVITIES

Alpha Chi Omega | Affiliated Member October 2018 – Present

Design Lead for Booth in Spring 2019. Participated in Greek Sing Spring 2020. Volunteered and helped with fundraisers through Alpha Chi Omega

Science Olympiad | Build Captain September 2015 – May 2018

COURSEWORK

- Principles of Software Construction
- Computational Methods for Biological Modelling and Simulations*
- Parallel and Sequential Data Structures
- Algorithm Analysis and Design*
- Principles of Functional Programming
- Distributed Systems*
- Introduction to Computer Security*
- Matrices and Linear Transformations
- Biochemistry
- Genomics
- Cell Biology*

(* indicates a course in progress for Fall 2020)

SKILLS

LANGUAGES

- Java
- C
- HTML
- Python
- SML
- x86-64

TECHNOLOGIES

- Git/GitHub
- Unix/Bash
- IntelliJ
- LaTeX
- VSCode

STRENGTHS

- Hard-working
- Flexible
- Patient
- Critical thinking
- Teamwork
- Determined

INTERESTS

- Water Sports
- Bharatanatyam (Classical Indian Dance)
- Calligraphy
- Drawing and Painting