STEVEN DEFALCO

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EDUCATION

Stevens Institute of Technology — Hoboken, NJ
Bachelors of Science in Computer Science, GPA: 3.85 — *Sep. 2021 – Present*

Coursework: *Data Structures, Algorithms, Computer Architecture, Statistics, Discrete Math*

Marine Academy of Science and Technology — Highlands, NJ
GPA: 96.5/100, Activities: Key Club, National Honor Society, NJROTC — *Sep. 2017 – Jun. 2021*

EXPERIENCE

Stevens Institute of Technology — Hoboken, NJ
Computer Science Course Assistant — *Sep. 2022 - Current*

- Instruct undergraduate students in "Introduction to Computer Science" and "Data Structures" courses.
- Collaborate with peers and the professor to design and maintain a comprehensive curriculum for 15-week semesters.
- Conduct weekly lab sessions to demonstrate new concepts and facilitate task-based learning, with administration of over 25 carefully-crafted assignments to reinforce student understanding of the material.
- Held bi-weekly office hours, offering individualized explanations and practice tailored to students' needs, which contributed to a 98% pass rate among enrolled students.

Pixel Light Digital Media — Lyndhurst, NJ
Quality Control & Software Testing Intern — *Jun. 2022 - August 2022*

- Designed and conducted tests on subsequent software iterations of a real-time, artificial intelligence system to be used in a published app used to track foot traffic, dwell time, and iteraction with convention booths.
- Tested distance prediction accuracy of the software with faces in 3-Dimensional space using variable conditions.
- Accomplished a 400% increase in relative accuracy of A.I. distance prediction while spearheading the testing.
- Final product predicts a distance which is within an average 2 feet of the true value (within 50 foot range).
- Deployed product for client at 3-day convention to collect and monitor real-time metrics to optimize booth interactivity.

COURSEWORK

Deep Learning: Graduate-level course with a focus on the design and implementation of modern deep learning models.
Learned: *ML, Computer Vision, Natural Language Processing, Convolution*   Used: *TensorFlow, Keras, Numpy*

Software Development Process: Course covering the essentials of developing better software in less time.
Learned: *Development Life Cycles, Archiecture and Design, Development Methoodoliges*   Used: *GitLab Ultimate*

Systems Programming: Course covering essentials of systems programming in C on UNIX systems.
Learned: *Version Control, Network Protocol, UNIX Syscall Interface, Inter-Process Communication*   Used: *C, UNIX*

Operating Systems: Course covering the internals and programming interface of modern operating systems.
Learned: *Processes, Concurrency, Programming with Threads, Memory Management*   Used *C, Debian OS*

Algorithms: alg stuff
Learned: Used:

Data Structures: ds stuff
Learned: Used:

SKILLS AND TECHNOLOGIES

Languages: Python, C/C++, Java, R, OCaml   **Technologies**: Latex, Git

EXTRACURRICULARS

Alpha Sigma Phi Fraternity: Active member of Alpha Tau chapter of the Alpha Sigma Phi national fraternity.