Constance Xu

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PROFESSIONAL SUMMARY

Computer science student with experience in computer vision, deep learning, machine learning, web programming, and software development at Stevens Institute of Technology. Proven ability to adapt quickly and apply analytical, quantitative, and technical skills in fast-paced, dynamic work environments with a creative, enthusiastic, and team-oriented mindset. Looking to push technological limits and solve the most challenging engineering problems by building sophisticated software solutions and innovations.

EDUCATION

STEVENS INSTITUTE OF TECHNOLOGY   Hoboken, NJ
Bachelor of Science in Computer Science   August 2018 – May 2021
GPA: 3.638
ACCOLADES: Dean's List, Presidential Scholar, Martha Bayard Stevens Scholarship
RELEVANT COURSEWORK: Data Structures, Algorithms, Automata and Computation, Discrete Structures, Programming Languages, Computer Organization and Programming, Linear Algebra, Project Management, Software Development Process
SOFTWARE SKILLS: Eclipse, XCode, MS Office Suite, Git/GitHub, Jupyter Notebook
OPERATING SYSTEMS: Mac OS X, Windows, Linux
PROGRAMMING LANGUAGES: Python, Java, C++, Bash, HTML, CSS, JavaScript, Scheme

EXPERIENCE

TEXAS STATE UNIVERSITY   San Marcos, TX
Undergraduate Researcher   June 2019 – Present

- Selected competitively to be a part of an intensive software cohort to solve problems pertaining to real-time change detection
- Collaborated on a deep learning project written in Python to identify objects of interests in aerial, overhead imagery
- Utilized a deep learning and computer vision framework on a Nvidia Jetson TX2 to detect objects in real-time
- Improved object detection efficiency and accuracy through transfer learning and refining on pre-trained weights

STEVENS INSTITUTE OF TECHNOLOGY   Hoboken, NJ
Course Assistant – Data Structures   August 2019 – Present

- Mastered the material to help students in the class understand critical programming and data structures concepts
- Revamped the curriculum by designing new, challenging coding assignments
- Collaborated with other course assistants to resolve class issues and ensure fairness
- Educated and reinforced class material through office hours

LEADERSHIP EXPERIENCE

STEVENS COMPUTER SCIENCE CLUB   Hoboken, NJ
Treasurer   May 2019 – Present

- Collaborated with members of the executive board to meet and accomplish all club goals
- Devised a detailed budget for each academic semester and centralized and organized all club expenses
- Negotiated the allocation of approximately $1000 to the club's budget for events
- Initiated outreach to the student body and industry professionals to host tech talks and technical workshops

STEVENS SIGMA DELTA TAU   Hoboken, NJ
Fundraising Chair & Webmaster   May 2019 – Present

- Spearheaded the organization and planning of a fundraising event that raised funding for approximately 70 women
- Launched outreach initiatives and collaborated with local restaurants in the Hoboken area to raise funds
- Orchestrated and executed a plan to increase affordability of chapter events
- Led the creation of and modernized the chapter website by using innovative web technologies

ADDITIONAL INFORMATION

INTERESTS: Data Analytics, Deep Learning, Artificial Intelligence, Machine Learning, Financial Markets
CLUBS: Stevens Computer Science Club, Society of Women in Engineering, Society of Asian Scientists and Engineers, Stevens Women in Computer Science