Jeffrey Chu

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Education

New York Institute of Technology   **September 2024 – May 2028**
Bachelor of Science in Computer Science   *Theodore K. Steele Memorial Scholarship ($29k) — New York, New York*

Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Computer Organization and Architecture, Digital Logic

Technical Skills

Languages: Java, Python, JavaScript, C++, TypeScript, HTML/CSS
Developer Tools: VS Code, AWS, Azure, Git/GitHub, Arduino, Linux/Kali
Technologies/Frameworks: ReactJS, Flask, Tailwind CSS, Unity (C#), ComfyUI, GenAI, Robotics, Web Scraping

Experience

New York Institute of Technology   **December 2024 – Present**
Biomedical Research Assistant   *New York, New York*
- Analyzed **5+ research papers** on tissue engineering scaffolds to design customized scaffolds
- Developed **10+ custom 3D parts** utilized by biomedical researchers to experiment with dozens of materials
- Automated tissue engineering scaffold designs, saving **75% of design time** compared to making manual scaffolds

Accenture   **October 2022 – July 2025**
Software Engineering Intern   *New York, New York*
- Managed over **16+ emerging technology demos (XR/VR, GenAI, BCI, Robotics, etc.)** which are recognized by over **5,000 people daily**, located in the companies client facing office.
- Presented emerging technology demos to **10+ groups of C-Suite Executives, Clients and Managing Directors (MDs)**, selling emerging tech solutions to various business problems.
- Architected AI digital-twin assistant (AWS SageMaker, Lambda, DynamoDB) with a 10-member team - showcased to **138k attendees at CES 2024** and awarded the "Best use of GenAI" Award by Billboard.
- Segmented over **4,300 exhibitors and 250 events at CES 2024** using web scraping tools such as ScraPy and Selenium, later converting data to a Vector Database for LLM's to use with Retrieval Augmented Generation (RAG).
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Projects

Final Exam Finder GUI | *Java, Swing*   **May 2025**
- Built a Java script to parse the NYIT Final Exam CSV, filtering final exam searches, saving users 65% of their time.
- Utilized Swing to create a GUI that allows users to filter final exam search based on class code or professors

Fashion Based GenAI Assistant (Advyna) | *AWS, ComfyUI* | advyna.com   **January 2025**
- Architected AWS Backend to manage waitlists and databases using DynamoDB, Lambda, and APIGateway.
- Utilized SDXL Models and ComfyUI to create an impainting image generation workflow, showcasing how models would look in certain clothes styles in ¡20 seconds

Leadership / Extracurricular

Association for Computing Machinery (ACM)   **September 2024 – Present**
Hackathon and Club Member
- Joined multiple hackathons, working with a team of 3+ students to create React Web apps and prototypes of ideas
- Worked with members on various LeetCode questions, training with them on various Data Structures utilized in typical LeetCode Problems

Entrepreneurship Technology Innovation Center   **September 2024 – Present**
Member
- Participated in Networking Events to highlight NYIT's entrepreneurship incubator and patented projects
- Designed a Python script to simulate an omnidirectional robot drivetrain, which can later be utilized for future projects

FIRST Robotics Competition   **January 2025 – April 2025**
Programming Team Lead/Mentor
- Mentored 3 FRC software teams, allowing our rookie team to outrank over 60% of all NYC Teams and for our veteran team to ranked 9th out of over 3000 teams worldwide
- Advised students in robotics programming by teaching, creating videos, and presenting. This affected over 30 high school students and accrued over 5k views on Youtube