Will Carter

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TECHNICAL SKILLS

Programming Languages:	**Tools & Frameworks:**
C, C++, C#, Python, Java, Javascript, HTML5, CSS	AngularJS, Tensorflow, Keras, Pandas, Apache Spark, ExpressJS, Docker, Git, Unity, Blender, Krita, Figma, MATLAB

EDUCATION

Rensselaer Polytechnic Institute   **Troy, NY**
Bachelors of Science, Computer Science (AI and Data)   *09/2020 - 05/2024*

WORK EXPERIENCE

Fidelity Investments   **Merrimack, NH**
Full Stack Software Engineer - Intern   *06/2021 - 08/2021*
- Built a **Machine Learning Ecosystem** and data processing pipeline in **Apache Spark**, enabling new opportunities in client prediction, preference management, and capital flow balance.
- Implemented a **backend caching system** for historical client data, resulting in an up to **90% speed increase** for client page load tasks.
- Developed an improved web frontend for enterprise benefit clients using **Angular,** increasing data usability and streamlining the client experience**.**

Zelgor, Inc   **Boston, MA**
Mobile Game Startup - Developer   *06/2019 - 08/2019*
- Co-designed and developed Noobs in Space, Zelgor's first commercial release, generating **20,000 downloads in 48 hours** from the initial beta alone.
- Engineered a multitude of **core system features**, including gameplay systems, in-app purchases, and UI, as well as art and music content. Tech stack included Unity/C#, Blender, Photoshop, Git, Jira.
- Worked in an **Agile startup environment**, building new products from scratch, presenting vertical slices, and communicating with investors, causing **valuation to rise to** $**4.8 million.**

Massachusetts Institute of Technology   **Cambridge, MA**
Newman Research Lab - Intern   *06/2018 - 08/2018*
- Worked with MIT researchers to collect and analyse forearm **motor-neural data** for use in rehabilitative and **autonomous prosthetics**.
- Collected patient data using a robotic machine resistance system simulating a circular constraint, then used **MATLAB** to calculate and visualize tangential velocity and radial forces for use in new tests.

SELECT PERSONAL PROJECTS

- **BrokerBot -** Collaborated with a team of 5 to create BrokerBot, an open source platform for autonomous trading algorithms.
- **Personal Website [LINK]** - Created a personal website, where I host projects and relevant links.
- **ML/AI Projects** - Researched and built a series of ML projects to increase my skill in the space.

LEADERSHIP & ACTIVITIES

- Head of the Charles Rower and 3-year **Varsity Team member** while in High School.
- **Camp Counselor** at Mazemakers in Weston MA for multiple years, teaching web design, robotics, game design, and athletic games.
- Lead a group of underclassmen to success at a Model United Nations Conference at Duke University.