Olivia Johnson

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EDUCATION

Brown University, Providence, RI — Expected Graduation: May 2023
- **Major:** B.S. Computer Science (Artificial Intelligence & Machine Learning) — **GPA:** 4.0
- **Relevant Coursework:** Software Engineering, Algorithms and Data Structures, Deep Learning, Computer Systems, Logic For Systems, Object-Oriented Programming, Discrete Structures and Probability, Statistical Inference, Linear Algebra

Trinity High School, New York, NY — Sept 2014 - May 2018
- **Honors**: Cum Laude, Hawley Award (Top 3 Students), NY Olympic Soccer Development Program — **GPA:** 3.95

WORK EXPERIENCE

Full-Stack Software Engineer, Strongsuit — Jun 2020 - Apr 2021
- Built Task Manager to standardize organizational input of team, provided insight into variety & frequency of client work
- Designed Agenda Builder to streamline employee prep work by >60%, improved team efficiency & unit economics
- Directed Product meetings to show new features, user stories, project specifications & receive feedback from executives

Co-Founder & COO, Brown University Breakthrough Lab for Entrepreneurship — Jun 2020 - Present
- Founded Computer Vision startup in restaurant industry and chosen for selective summer '21 startup accelerator
- Conducted extensive bottom-up research with 50+ customer interviews and recurring meetings with experts & mentors
- Applied entrepreneurial process learned from previous venture to develop value proposition and customer definition

Undergraduate Teaching Assistant, Brown Computer Science Department — Fall 2021
- Selected as Teaching Assistant for 400+ students in intro CS course with Prof. Andy van Dam (CSCI 0150)
- Led 2 labs/sections & 4 debugging hours each week to assist students with code and complex concepts
- Redesigned 3 labs, updated the Cartoon project design, graded 10 assignments each week, and mentored 5 students

Machine Learning Research Intern, Columbia University Kriegeskorte Lab — Summer 2019
- Built 3 versions of a Convolutional Recurrent Neural Network to reconstruct and predict Moving MNIST videos
- Combined unsupervised & recurrent deep learning models to mimic neurons in the primary visual cortex

TECHNICAL PROJECTS

Sexual Assault Survivors iOS App, Product Management & Backend (Javascript, ReactJS, NodeJS) — Sept 2020 - Mar 2021
- Led product development of an app-based community that facilitates discourse & healing for sexual assault survivors
- Designed MongoDB schemas and Firebase REST API to maintain data transferred and presented on the app
- Oversaw User Research initiative comprising of a month-long beta with 30 users & 50+ customer interviews

Food-Coma Recipe Recommendation Web App, Full-Stack (Java, Javascript, HTML, CSS) — Spring 2020
- Managed front-end development and built the website infrastructure with intuitive web design and cookie system
- Built API connection between front-end interface and backend user database for Login & Signup functionality
- Designed & oversaw development of the recommendation k-d tree algorithm that curated recipes to a user's preferences

Convolutional Recurrent Neural Network Model, Machine Learning (Python with PyTorch) — Summer 2019
- Built a model that takes in Moving MNIST videos and predicts future frames using unsupervised learning
- Built a Variational Autoencoder with Long Short-Term Memory cells in latent space to process temporal inputs
- Optimized performance via a present reconstruction penalty and predictive prior distribution in the loss function

LEADERSHIP & COMMUNICATION EXPERIENCE

Brown Women's Club Soccer, Team Captain — Mar 2021 - Present
- Elected as a sophomore to lead roster of 25+ players in competitive conference as a captain and coach
- Coordinated games & practices for fall season, served as communication liaison between players & Brown administration
- Emphasized diversity & inclusion by reaching out to BIPOC campus orgs., incorporating mental health exercises, and eliminating social divisions between upper/underclassmen

Women in Computer Science, Mentor — Sept 2019 - Present
- Guided multiple pods of female CS students in course selection, balancing class work, & career paths for women in tech

SKILLS & INTERESTS

Programming Languages: Python | JavaScript | Java | C | HTML & CSS | Swift | MATLAB | x86 Assembly
Technical: ReactJS | NodeJS | MongoDB | SQL | Tensorflow | PyTorch | Redux | JQuery | LaTeX Editor | Linux
Interests: supporting women's pro soccer, reading dystopian fiction, exploring urban parks, baking seven layer bars