

Education

Georgia Institute Of Technology

Atlanta, GA

B.S. Computer Science | Minor in Mathematics | GPA: 4.0 / 4.0

May 2020

M.S. Computer Science | Machine Learning Specialization

est. May 2021

• Coursework: Network Science, Info Theory, Computer Vision, Deep Learning for Text, Comp. Neuroscience

Stuyvesant High School

Manhattan, NY

Advanced NYS Regents Diploma | GPA: 4.0 / 4.0

Jun 2017

Publications and Presentations

J. Ye, D. Batra, E. Wijmans, and A. Das. Auxiliary Tasks Speed Up Learning PointGoal Navigation.

In *Conference on Robot Learning*, 2020.

J. Ye, C. Pandarinath. Representation learning for neural population activity with Neural Data Transformers.

Poster presentation at Neuromatch 3.0, 2020.

Experience

Microsoft

Remote

Visual Document Intelligence - Software Engineering Intern | C#, Python, Typescript

May - Aug 2020

- Prototyped empty region annotation and data augmentation for document recognition frontend
- Integrated, benchmarked and analyzed data augmentation performance in backend

Ubiquity6

San Francisco, CA

Software Engineering Intern | React Native, Python, Bash

May - Aug 2019

- Prototyped wayfinding experience for navigating AR scenes, using a custom navigation mesh
- Wrote UI screens for collecting user feedback, improving components for draggable content
- Wrote SfM post-processing to prototype feature extraction training pipeline
- Analyzed ARKit (Obj-C) and ARCore (Java) anchor drift, assessing viability for better pose priors
- Fix and extend render engine testing suite through Puppeteer, wrapping Three.js API

HackGT

Atlanta, GA

Director of Technology

Dec 2018 - Nov 2019

- Lead 10+ students to make hackathon tech. Work on executive board to plan HackGT's events
- Lead curriculum committee to collaborate with campus CS organizations on workshops

Projects

Automatically Defined Functions | Automated Algorithm Design

Aug - Dec 2019

- Designed and built self-defining functions in EMAD evolutionary ML engine, using DEAP framework

Buzzer | github.com/HackGT/buzzer | Typescript, Node, GraphQL

HackGT Tech 2018

- Created GraphQL server that accepts notification media plugins and designed schema interface
- Developed Twitter plugin for broadcast and Twilio plugin for targeted text notifications

Photobooth | github.com/HackGT/photo-style | Flask, JQuery

HackGT Tech Fall 2018

- Interfaced with style-transfer server to collect styled photos, built masking app with HTML canvas
- Set up server polling endpoint to interface with DSLR camera trigger, provide fallback laptop camera

Technical Skills

Proficient Capable Frameworks Programs	Python	Javascript (Node, Typescript)		Bash	Java	HTML/CSS	
	C#	C	SQL & NoSQL	LaTeX	Unit Testing		
	Pytorch	React/RN	Flask	GraphQL	Bootstrap/Blueprint/SemanticUI		
	Angular						
	3DSMax	Illustrator	After Effects	GIMP			