Joel Ye

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Education

Georgia Institute Of Technology
B.S. Computer Science | Minor in Mathematics | *GPA: 4.0 / 4.0*   May 2020
M.S. Computer Science | Machine Learning Specialization | *GPA: 4.0 / 4.0*   May 2021
· Coursework: Comp. Neuroscience, Network Science, Info Theory, Computer Vision, Deep Learning for Text

Stuyvesant High School
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 (CoRL)*, 2020.
J. Ye, C. Pandarinath. Representation learning for neural population activity with Neural Data Transformers.
Poster presentation at Neuromatch 3.0, 2020.

Experience

Microsoft, *Visual Document Intelligence, Software Engineering Intern - Remote*   Summer 2020
  · Prototyped empty region annotation and data augmentation for document recognition frontend
  · Integrated, benchmarked and analyzed data augmentation performance in C# backend
Ubiquity6, *Software Engineering Intern - San Francisco, CA*   Summer 2019
  · Prototyped wayfinding experience for navigating AR scenes, using a custom navigation mesh
  · Wrote React Native UI 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
  · Extended render engine testing suite through Puppeteer, wrapping Three.JS API
HackGT, *Director of Technology - Atlanta, GA*   2019
  · Led 10+ students to make hackathon tech. Worked on executive board to plan hackathon events
  · Led curriculum committee to collaborate with campus CS organizations on workshops
Microsoft, *Microsoft Teams, Explore Intern - Redmond, WA*   Summer 2018
  · Extend services and data channel to notify screensharers who can see their screen
  · Update toolbar with accessible UI and add feature telemetry

Projects

Automatically Defined Functions   Fall 2019
  · Designed and built system to detect and extract useful functions in evolved computation trees
Photobooth | github.com/HackGT/photo-style   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
Buzzer | github.com/HackGT/buzzer   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

Technical Skills

Languages	Python Javascript/Typescript Bash Java HTML/CSS C C#
Frameworks	Pytorch/TF React/RN GraphQL Node LaTeX Unit Testing
Programs	3DSMax Illustrator After Effects GIMP