

Eric Jing

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EDUCATION

Columbia University

M.S. in Computer Science

New York, NY

Exp Dec 2021

- Relevant Courses: Digital Logic, Natural Language Processing

Cornell University

B.S. in Computer Science, summa cum laude – GPA: 4.0

Ithaca, NY

May 2019

- Relevant Courses: Artificial Intelligence, Computer Vision, Machine Learning, Robotics
- Honors: Dean's List, Tau Beta Pi

TECHNICAL SKILLS

Languages: C/C++/C#, Python, Java, Matlab, Swift, Metal, R, Lua, JavaScript, TypeScript

Frameworks: TensorFlow, Keras, PyTorch, Flask, OpenCV

Other Tools: Git, Adobe Photoshop

PROFESSIONAL EXPERIENCE

Genmab

Princeton, NJ

Machine Learning Intern

Jun 2021 – Aug 2021

- Applied HE2RNA model to internal dataset of microscope slides to obtain heatmap of gene expression.
- Measured correlation between heatmap of gene expressions and accompanying spreadsheet data for every slide.

GlaxoSmithKline

Upper Providence, PA

Machine Learning Intern

Jun 2018 – Aug 2018

- Demonstrated practical use of Variational Autoencoders to classify cancer genomics data to the Bioinformatics department.

Covance, Inc

Princeton, NJ

Software Engineering Intern

Jun 2017 – Aug 2017

- Prototyped an automated tool to measure medical review webpage performance and graph results.
- Programmed a distance function for a hierarchical clustering algorithm, using density clustering to calculate distance.

PROJECTS

Guided Grasp

May 2021 – Present

- Developed computer vision pipeline for an iPhone app that assists the blind with locating and grasping objects.
- Improved grasp calculation performance using Metal compute shaders.

Pedestrian Crossing Prediction

Sep 2018 – Dec 2018

- Proposed AI feature detector, identifying road signals and other attributes from dashcam video footage.
- Generated a dataset of pedestrians for machine learning algorithms to predict whether pedestrians will cross soon.

CS3152 (Game Design) Final Project: "Lost Time" video game

Jan 2018 – May 2018

- Programmed a top-down action game with a group.
- Led team to showcase final product in BostonFIG.
- Proposed novel asset management system to speed up iteration process, reducing loading times by more than 50%.

"Skynet" DeepMPC

Sep 2017 – Dec 2017

- Experimented with a wheeled robot, helping it navigate obstacles and perform aggressive maneuvers such as drifting, wheelies.
- Implemented deep neural network architecture for model predictive control in Tensorflow as well as pre-training procedure.