

## Peter (Youn Sung) Huh

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US Permanent Resident

### EDUCATION

#### Cornell University, College of Engineering

Expected Graduation: May 2023

Bachelor of Science, Major in Computer Science

Cumulative GPA: 3.3/4.0

Hunter Rawlings III Presidential Research Scholar (*awarded to less than 1.5% of students each year*)

**Relevant Academic Courses:** Machine Learning, Object Oriented and Functional Programming, Algorithm Design, Data Driven Web Applications, Probability and Statistics, Linear Algebra, Artificial Intelligence

**Skills:** NodeJS, ExpressJS, MongoDB, Flask, React, NextJS, Firebase, Redis, Python, Java, OCaml, HTML, CSS

### WORK EXPERIENCE

#### Moneybrain (Leading Series-B startup in the conversational AI Human industry)

Seoul, South Korea

*Full-stack Software Engineer, B2C App/Web Development Team*

June 2020 - Present

- Developed and managed Newface App (an app for animating still images); currently has 30+ concurrent users, 10k downloads and over 30k contents created
- Designed and built a scalable server architecture that distributes users' video synthesis requests evenly throughout multiple GPU servers; used Firebase Realtime Database, NodeJS, MongoDB and Flask
- Optimized GPU processing speed by caching detected facial keypoints from frequently used input videos in MongoDB
- Implemented an automatic frame cropping algorithm that dynamically resizes input image/video based on location of facial features; used Python, OpenCV
- Developed video editing and text filtering interface in aistudios.com (AI Text-to-Video solution platform); used NextJS

#### Griffin Capital (Alternative real-estate investment firm with over \$11 billion AUM)

El Segundo, LA

*Summer Intern, Real Estate Acquisition Team*

June 2019 - August 2019

- Implemented a python program that automates the process of organizing comparable data into Investment Committee Memorandum template
- Assisted in underwriting the firm's potential core/core-plus office and industrial acquisition pipeline and disposition of properties by performing market comparable research, cash flow modeling and risk/return sensitivity analysis

### RESEARCH EXPERIENCE

#### Undergraduate Research Assistant, Claire Lab, Cornell University

February 2020 – December 2020

- Researched effectiveness of Long Document Summarization using NLP language model BART

#### Undergraduate Research Assistant, Minca Lab, Cornell University

September 2018 – November 2019

- Designed and constructed a mathematical model using Python to investigate the most optimal bail-out strategy under various market shock scenarios, based on a modeling idea in Golub-Jackson's academic paper

### PROJECTS

#### AI Walk-Through Customer Support Panel (1<sup>st</sup> Place at Doosan x GS Caltex Hackathon: <https://bit.ly/3x351LB>)

- Designed and built a system that maps keywords from transcribed speech into a rule-based chatbot; used Google Speech-to-Text API, webRTC, and Socket IO

#### Ontime – Subscription-based Mobility as a Service Platform (Junction X Seoul 2021 hackathon: <https://bit.ly/3rEhJ2n>)

- Implemented a map interface with features like pin drag, estimated time, and directions; used Google Maps API and React

#### Glassip – Korean Local Restaurant Review Web Platform for Foreigners

- Led development team of three and deployed on AWS EC2 instance: <http://52.201.254.22:3000/>
- Implemented "Search by map" feature with MongoDB geospatial query

#### Handwritten Digit Recognition

- Implemented a rudimentary neural network structure that could recognize handwritten digits using MNIST dataset