

Gregory Kofman

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Programming

- Java
- Python
- JavaScript
- C
- C++
- Verilog
- OCaml

Frameworks & Tech

- Tensorflow
- Keras
- Git
- Node.js
- jQuery

Languages

- English
- Russian
- German

Interests

- Jazz piano
- Theater lighting
- Fishing
- Skiing
- Logic games

Education

University of Pennsylvania – School of Engineering & Applied Science	Philadelphia, PA
B.S. Engineering: Computer Science Minors: Mathematics and Physics	May 2020
<ul style="list-style-type: none">• Coursework: Statistics & Machine Learning, Data Structures & Algorithms, Computer Organization & Design, Introduction to Computer Systems, Complex Analysis, Advanced Linear Algebra, Scalable & Cloud Computing, Operating Systems, Automata, Computability, and Complexity, Networked Systems	3.35/4.00

Professional Experience

Google , Software Engineering Intern	May 2019 – August 2019
<ul style="list-style-type: none">• Designed, implemented, tested, and launched a modified distributed system for assigning messages to servers efficiently and at scale within Google's Publisher-Subscriber service	
Infosys Ltd. InStep Program, Bengaluru , Deep Learning Intern	May 2018 – August 2018
<ul style="list-style-type: none">• Developed a new method for determining how neural networks make decisions by analyzing outputs of FaceNet; novel method to be pursued further by Infosys• Improved neural network for plant disease detection by modifying layers, tuning parameters, and retraining; packaged analytical model into mobile application• Created an intuitive web application for building and exporting neural net models by clicking on visual layers; allows users to export a Python script with Keras implementation of the model; used by Infosys to train employees	
Balloon-borne Large Aperture Submillimeter Telescope , Researcher	March 2017 – March 2018
<ul style="list-style-type: none">• Developed thermal conductivity calculator, built hard drive tower in a vacuum vessel, assembled and tested solar panel array, and cycled a cryostat to test helium refrigeration	

Select Projects

mHealth	February 2018 – Present
<ul style="list-style-type: none">• Created an iOS application that guides nursing staff through cardiac arrest procedures, records events in database, and alerts for required actions• Used by nursing staff at the University of Pennsylvania Hospital	
PlantVillage	July 2018
<ul style="list-style-type: none">• Applied transfer learning from the Inception V3 model to classify plant diseases in crops; achieved test accuracy of 88%	
iCane	January 2018
<ul style="list-style-type: none">• Created cane powered by Raspberry Pi that uses ultrasonic sensing to detect and recognize objects to assist visually impaired individuals• Developed web application that uses beacons placed in buildings to provide user location information via audio• Won third place, organizer's choice, and Globo sponsorship prizes at DragonHacks	
Thermal Conductivity Calculator	May 2017 – August 2017
<ul style="list-style-type: none">• Created applet to calculate heat transfer across materials with various geometries using data from NIST	

Involvement

Mechanics Laboratory , Teaching Assistant	August 2016 – Present
Stimulus Children's Theatre , Technical Director, Web Master, Lighting Designer	August 2016 – Present

