Gregory Kofman

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Programming

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

Frameworks & Tech

- Tensorflow
- Keras
- Git
- Mercurial
- 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
                                                                                  3.40/4.00

- 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, Databases, Internet and Web Systems

Professional Experience

Google, Software Engineering Intern   May 2019 – August 2019

- 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

- 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

- 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

Keep.id   August 2019 – Present

- Co-founder and lead backend engineer of a non-profit that creates secure identity storage for people experiencing homelessness

mHealth   February 2018 – December 2018

- 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

iCane   January 2018

- 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

Involvement

Information and Database Systems (CIS 550), Head Project TA   January 2020 – May 2020
Graduate Web Development (CIS 557), Teaching Assistant   August 2019 – December 2019
Stimulus Children's Theatre, Web Master, Tech Director, Lighting Designer   August 2016 – May 2020
Mechanics Laboratory (PHYS 150), Teaching Assistant   August 2017 – May 2019