Gregory Kofman

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http://github.com/kofmangregory

Programming

- \rightarrow Java
- \rightarrow Python
- → Javascript
- \rightarrow C
- → HTML/CSS
- → Verilog
- \rightarrow OCaml
- \rightarrow Assembly

Technology

- → NodeJS
- \rightarrow LevelDB
- → Express.js
- \rightarrow Hapi
- → Raspberry Pi
- → Arduino

Operating Systems

- → Windows
- → Linux

Languages

- → English
- ightarrow Russian
- \rightarrow German

Interests

- → Jazz Piano
- \rightarrow Theater
- → Vinyl collecting
- → Fishing
- \rightarrow Skiing
- ightarrow Logic games

Education

University of Pennsylvania - School of Engineering & Applied Science

B.S. Engineering: Computer Science | Minors: Mathematics and Physics

→ Coursework: Statistics & Machine Learning, Data Structures & Algorithms, Computer Organization & Design, Introduction to Computer Systems, Programming Languages & Techniques, Complex Analysis, Advanced Linear Algebra Philadelphia, PA May 2020 3.41/4.00

Projects

iCane | https://github.com/pixelyunicorn/icane

January 2018

- → (Raspberry Pi, C) A cane powered by Raspberry Pi that uses ultrasonic sensing to detect and recognize objects to assist the visually impaired.
- → (HTML/CSS, Javascript) A web app that uses beacons placed in buildings to send the user his location, which is converted to audio via a text-to-speech API.
- → Third place, organizer's choice, and Globo sponsorship prize at DragonHacks.

Othello | https://github.com/kofmangregory/Othello

December 2017

→ (Java) The game Othello using Java's Swing package.

Thermal Conductivity Calculator

May 2017 - August 2017

→ (Python) An applet to calculate the heat energy across various materials with various geometries using data from NIST.

SmartCup | https://github.com/DanBarychev/SmartCup

September 2015

→ (Arduino) A cup holder powered by Arduino that reports the ideal drinking temperature of a liquid.

Professional Experience

Balloon-borne Large Aperture Submillimeter Telescope, Researcher March 2017 - Present

→ Developed the thermal conductivity calculator, updated and upkept the website, built a hard drive tower in a vacuum vessel, assembled and tested a solar panel array, and cycled a cryostat to test its helium fridge.

Mechanics Laboratory, Teaching Assistant

August 2017 - Present

→ Set up laboratory equipment, explained lab procedures, graded lab reports, and answered mechanics questions.

Penn Summer Science Initiative, Researcher

June 2015

- → Collaborated in teams of four students in four week-long lab activities with intensive lab reports and presentations.
- → Tested the strengths of concrete mixtures, observed the diffusion of metals, stress-tested polymers, and constructed an OLED.

MedSurvey, Inc., Call Center Representative

Summer 2014 and Summer 2016

→ Screened medical personnel for eligibility in medical market research surveys.

Involvement

Stimulus Children's Theatre, Technical Director, Lighting Designer

Undergraduate Physics Society

August 2017 - Present

August 2016 - Present