Ozaner Hansha

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EDUCATION

Rutgers University – New Brunswick • Honors Program • *May 2021*
B.S. in **Computer Science**, **Mathematics** & **Cognitive Science** • Minor in **Philosophy**
‣ Cumulative GPA: **3.6/4.0**
‣ Dean's List

RELEVANT COURSEWORK

Comp. Sci: Data Structures • Algorithms • Computer Architecture • Numerical Analysis • Intro to A.I.
Math: Linear Algebra • Probability Theory • Multivariable Calculus • Differential Equations • Set Theory

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SKILLS & INTERESTS

Programming: Java, C, Python, Prolog, MATLAB
Tools: Git, Vim, Atom, VS-Code, Eclipse, LaTeX
APIs: Tensorflow, Pandas, NumPy
Interests: Machine Learning, Quantum Computing, Set Theory, Technical Writing

PROJECTS

qRNG - Quantum Random Number Generator • *January 2019*
github.com/ozanerhansha/qrng
‣ Developed a cloud-based *Python* package that generates truly random numbers & data.
‣ Makes use of IBM's publicly available quantum computers via their QISKit API.
‣ Implements quantum algorithms for integer and floating point number generation.

Breast Cancer Classification • *June 2018*
ozanerhansha.github.io/breast-cancer-classification/
‣ Developed a classifier that identifies cancerous breast cells given a set of statistical features with a 94% accuracy.
‣ Model is an artificial neural network trained on the Wisconsin Breast Cancer Data Set.
‣ Built with *Python*, *Numpy*, and *TensorFlow*.

FileToPNG • *August 2018*
ozanerhansha.github.io/filetopng/
‣ Built a tool which converts any file into a PNG representation and can convert it back to the original file.
‣ Allows people to send files over image only communication lines (i.e. SMS, direct messages, etc.)
‣ Built with *Java* and *Javax Swing*.

Writing • *September 2017 – Present*
ozanerhansha.github.io ; *medium.com/@ozanerhansha*
‣ My featured article on Euler's formula has 10,000+ views; check it out here.
‣ I post more in-depth notes on subjects pertaining to math, computer science, and philosophy on my website.

LEADERSHIP

HackRU • Executive Director • *December 2018 – Present*
‣ Lead and organize 7 sub-teams to hold HackRU, New Jersey's largest student run hackathon.
‣ Cooperate with sponsors from a diverse range of industries like Facebook, Goldman Sachs, and Colgate-Palmolive, as well as non-profit partners.
‣ Manage the **$80,000** budget, on top of coordinating Rutgers administration, sponsor representatives, HackRU organizers, and HackRU participants to ensure a smoothly running event.

Rutgers CS • Treasurer • *April 2019 – January 2020*
‣ Manage $6,000 and oversee financial aspects of various social and academic events for Rutgers CS students.
‣ Organize events to promote professional development and foster a sense of community among students in tech.
‣ Coordinate mentorship and outreach initiatives which target underprivileged youth in the NJ/NY area.

Robotics • Instructor • *March 2019 – November 2019*
‣ Taught robotics lessons at the Rutgers Makerspace for the FIRST Robotics Competition.
‣ Introduce students to python and how it can be used to manipulate sensor data and move robot.
‣ Reinforce the importance of uniting hardware, design, software, and cooperation in building their robots.