Kabilan Balasubramani

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EDUCATION

University of Pittsburgh   Pittsburgh, PA

Honors, B.S. Computer Science   EXPECTED GRADUATION: MAY 2023

EXPERIENCE

Google CSSI Coursera   Pittsburgh, PA

Student   JUNE 2020 - PRESENT

- Earned certificate for studying fundamental algorithmic and data structures topics in Python enhanced with interactive projects and problems

University of Pittsburgh Cancer Institute   Pittsburgh PA

Researcher   JUNE 2019 - AUGUST 2019

- Developed a lightweight, portable electrocardiogram device to process real-time patient data using machine learning to classify cardiovascular abnormalities with 93% confidence.

CompuDANCE   Wexford, PA

Co-Founder   JANUARY 2018 - MARCH 2018

- Curated and taught an interactive C++ curriculum covering variables, conditionals, and loops and real-world applications to over 40 students per session.
- Broke the gender stigma of women in STEM fields and men in dance by bringing together Indian Folk Dance and C++workshops with a team of 3 members

SKILLS

- Relevant Coursework: Data Structures, Algorithms, Discrete Structures
- Technical Skills: Python (4yrs), Java (3yrs), C++ (2yrs), HTML/CSS (1yr)

PROJECT

Pathfinding Visualizer – *Personal*   Python

- Designed interactive UI to visualize A* search algorithm as an educational tool to allow users to visually inspect the runtime behavior of the algorithm.   AUGUST 2020

Lunchroom – *Personal* 🔗   Java, JavaScript

- Lunchroom is an open source project aimed towards recreating the immersive experiences that in-person conversations provide.
- Using positional audio and an interactive UX, one can virtually relive those moments.   AUGUST 2020 - PRESENT

AWARDS & ACTIVITIES

Pitt Computer Science Club University of Pittsburgh's largest CS-related student organization. Proudly pushing the boundaries on what it means to be a Pitt student.   PRESENT

OVBI Recognition Overseas Volunteer for a Better India, raised $25,000 for children in the Redlight District in Kolkata.
                                                                       FEBRUARY 2019

Guiding Star Dance Scholar Earned for teaching, performing, and organizing Indian Folk Dance across greater Pittsburgh with over concurrent 600 members.   MARCH 2020