

Kabilan Balasubramani

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EDUCATION

University of Pittsburgh

Pittsburgh, PA

Honors, BS Computer Science (3.95)

EXPECTED GRADUATION: AUG 2023

SKILLS

- Relevant Coursework: Data Structures, Algorithms
- Languages: English (native), Tamil (native), Python (4yrs), Java (3yrs), C++ (2yrs), HTML/CSS (1yr)
- Technical Skills: Git, Pandas, Dash

EXPERIENCE

Google Computer Science Summer Institute – Coursera



Pittsburgh, PA

Student

JUNE 2020 – SEPTEMBER 2020

- Integrated Google Cloud Credits into server-sided web application to host project utilizing positional audio alongside Google STEP interns and teammates
- Earned certificate for studying fundamental algorithmic and data structures topics in Python enhanced with interactive software engineering projects and training

University of Pittsburgh Cancer Institute

Pittsburgh, PA

Researcher

JUNE 2019 - AUGUST 2019

- Developed a lightweight, portable electrocardiogram device to process real-time ECG patient data using Support Vector Machine to classify cardiovascular abnormalities with 93% confidence
- Reduced data processing pipeline speed by 15% using NumPy and sklearn libraries for Support Vector Machine and feature classification

CompuDANCE

Wexford, PA

Co-Founder

JANUARY 2018 - MARCH 2018

- Curated and taught an interactive C++ curriculum covering variables, conditionals, loops and real-world applications to over 40 students (K-12) per session
- Broke the gender stigma of women in STEM fields and men in dance by bringing together Indian Folk Dance and C++ workshops, combining the shared creativity between both fields

PROJECTS

LinkedIn Skills Tracking Dashboard – Personal



DECEMBER 2020

- Created interactive LinkedIn skills tracking dashboard using **Python Dash, Pandas, Plotly**
- Analyzed world bank data, creating metric for skills ranking and frequency for 70 industries

Augury – League of Legends Match Outcome Predictor



NOVEMBER 2020 - PRESENT

- Designed functional League of Legends API using **Python** linked to Riot API
- Built predictive matchmaking interface based on players' prior statistics and data – calculating probability of a win against players accounting for various in-game variables with weighted metric

Pathfinding Visualizer - Personal



AUGUST 2020

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

AWARDS & ACTIVITIES

Overseas Volunteer for a Better India Recognition

FEBRUARY 2019

- Raised \$25,000 for children in the Redlight District in Kolkata through hosting and organizing dance recitals in the greater Pittsburgh area

Guiding Star Dance Scholar

MARCH 2019

- Recognized for teaching, performing, and organizing Indian Folk Dance recitals across greater Pittsburgh with over concurrent 600 members