

# KABILAN BALASUBRAMANI

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## EDUCATION

### University of Pittsburgh

Honors, Bachelor of Science in Computer Science (3.9/4.0)

August 2020 – May 2024

Pittsburgh, PA

## EXPERIENCE

### Omnicell

May 2021 – Present

Software Engineering Intern

Cranberry, PA

- Reduced time needed to prepare data reports by 20% by building a data analytics dashboard with ASP.NET 5 and Vue.js
- Decreased overall query execution time by 100% using Dapper Micro ORM to connect SQL Server stored procedures
- Cut down on amount of manual data requests by implementing pharmacy-specific dashboards, saving customers a cumulative 24 hours per request

### James Street Sensory

December 2020 – April 2021

Front End Developer

Pittsburgh, PA

- Re-branded organization's website by focusing on client-specific needs resulting in a 40% increase in unique visitors
- Created interactive parallax animations and increased social media presence by 190% with embedded social pages
- Resolved website inaccuracies with modern and accessible designs built in Figma based on Google's Material Design language

### University of Pittsburgh Cancer Institute

June 2019 – August 2019

Computational Biology Researcher

Pittsburgh, PA

- Developed a lightweight, portable electrocardiogram device to process real-time ECG patient data using machine learning to classify cardiovascular abnormalities with 93% confidence
- Reduced data processing speed by 15% with Python Pandas and SciKit-learn libraries for SVM and feature classification
- Earned award for best research project among 15 candidates by demonstrating the device's potential life-saving impact

## PROJECTS

### LinkedIn Skills Tracking Dashboard | Python Dash, Pandas, Plotly

Decemeber 2021

- Developed an interactive data analytics dashboard to analyze LinkedIn's Skills needs per industry using Python Dash
- Established a comparable metric for over 70 industry skills using World Bank Data and Pandas Library
- Created hover-able bar graphs and bubble plots using Dash to easily visualize the top skills needed per industry profession

## TECHNICAL SKILLS

**Languages:** Python, Java, C, C++, HTML, CSS, JavaScript, SQL

**Technologies/Frameworks:** Git, .NET 5, React.js, Vue.js, Vuetify, Pandas, Dash, Wix

**Relevant Coursework:** Data Structures, Systems Organization, Discrete Structures, Intro to Systems Software

## LEADERSHIP / EXTRACURRICULARS

### Google Computer Science Summer Institute x Coursera

June 2020 – September 2020

Student

Pittsburgh, PA

- Selected as a participant in an 8 week, intensive and collaborative software and career development program led by Google Engineers for high-achieving diverse talent based on academic success and career ambition

### CompuDANCE

January 2018 – March 2018

Co-Founder

Wexford, PA

- Broke the gender stigma of women in STEM fields and men in dance by bringing together Indian Folk Dance and C++ workshops
- Raised awareness for the shared creativity between both fields by creating meaningful representation for all
- Served as a technical mentor teaching a curated C++ curriculum covering variables, conditionals, loops, and real-world applications to over 40 students (K-12) per session with peer programming and supplemental project ideas