

# Vijay Rajagopal

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## EDUCATION

**The University of Tennessee** | Knoxville, TN

**Aug 2017 – May 2021**

Bachelor of Science in **Computer Science** (Honors) w/ Minor in **Cybersecurity**

**Overall GPA: 3.730/4.000**

**Classes:** Realtime Artificial Intelligence, Intro to Scientific Computing, Algorithm Analysis

## EXPERIENCE

**Undergraduate Research Assistant for AI and Image Processing**

**Jun 2018 – Present**

*The University of Tennessee | Dr. Mongi A. Abidi*

**Knoxville, TN**

- Testing and modifying facial detection models for large crowds
- Developing program that analyzes model performance when tested with enhanced and degraded images
- **Skill set:** Linux, Python, Shell Scripting, C++, and C

**Lead Developer of Citiwrks**

**Mar 2019 - Present**

*Knoxville City Hackathon | Pyxl, Inc.*

**Knoxville, TN**

- Created mobile app that helps Knoxville City workers manage potholes (Team size: 4)
- App allowed workers to add/remove work tickets, map best route, and review old work tickets
- Made at hackathon and won **three** prizes: “Best Mobility”, “Best Use of Google Cloud”, “Fan Favorite”
- **Skill set:** Javascript, Typescript (Angular), Ionic, HTML, and CSS

**Lead Developer of High-Altitude Balloon Project**

**Oct 2017 – Jan 2019**

*UT Student Space Technology Association | University of Tennessee*

**Knoxville, TN**

- Developing high-altitude balloons with data collection and communication capabilities
- Developed main flight computer software for balloon’s electronic bay
- Creating a prototype data visualizer for balloon flight data and live-tracking for future flights
- **Skill set:** Raspberry Pi, Raspberry Sense Hat, and Python

**Lead Developer of MyCalTracker**

**Nov 2018 – Dec 2018**

*VandyHacks V | Vanderbilt University*

**Nashville, TN**

- Developed functional prototype of web application for Vanderbilt Hackathon (Team size: 3)
- App allowed people to interact with Amazon Alexa to track calorie and nutritional intake
- Interfaced Amazon Lambda with Alexa and nutrition APIs; Developed frontend design of application
- **Skill set:** AWS, Amazon Lambda, Amazon Skills, Amazon DynamoDB, and NodeJS

## TECHNICAL SKILLS

- **Programming:** C++, C, C#, Python, Javascript, Typescript, PHP, SQL, NoSQL, Shell Scripting
- **Others:** Raspberry Pi, Raspberry Sense Hat, VEX Cortex (microprocessor for robots), AWS, Photoshop, AutoDesk Maya, Linux, UNIX, Jupyter Notebook

## COMMUNITY SERVICE

- Germantown Public Library Volunteer

*Germantown, TN | Apr 2012 – Apr 2016*