□ ramvellanki.com

Ram Vellanki

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EDUCATION

CORNELL UNIVERSITY | College of Engineering, BS in Computer Science Aug. 2015 - May 2018 | Ithaca, NY GPA: 3.83 Major GPA: 3.90 | Dean's List Minor : Electrical & Computer Engineering

Relevant Coursework (* = A+, × = Teaching Assistant):

- Honors Data Structures Computer Organization
- Functional Programming^{*x} Embedded Systems • Operating Systems

 - Microcontrollers
- Robotics* • Machine Learning^x
- Graphics
- Circuits*
- Computer Networks
- Linear Algebra*

SKILLS

Programming : Java · Kotlin · C · C ++ · Python · Node.js · Android | Web : HTML · CSS · JS | Other : Git · SQL

EXPERIENCE

WAYMO | Planner, Senior Software Engineer

- TL (Tech Lead) of a horizontal team for the onboard planner to handle other vehicles cutting in.
- Work on various aspects of driving behavior such as evasive maneuvers or defensive driving.
- **GIVEDIRECTLY** | Google.org Fellowship, Software Engineer September - November 2019 | New York, NY
 - Worked part-time for the GiveDirectly nonprofit and helped develop a disaster relief mapping tool to locate the most effective regions for donation recipients considering both damage and pre-existing poverty.

GOOGLE | Video Ads, Software Engineer

• Worked on backend for video ads on Google Ad Manager (admanager.google.com) which services various premium publishers such as Disney, Hulu, ESPN, and CBS.

GOOGLE | Search Ads, Software Engineering Intern

• Worked on the Product Listings team to improve features of product related search results involving both frontend work in a propriety templating framework as well as backend work in C++ all with extensive consideration for the large scale and low latency requirements of Google Search.

CORNELL UNIVERSITY | CUAir (cuair.org), Platform Lead

- Developed a control interface for a camera and gimbal mechanism on-board an unmanned aerial vehicle (UAV) and exposed it via a TCP API. This involved interfacing with hardware via a camera SDK and the gimbal's serial interface.
- Developed and maintained a performant Java/Kotlin web application server stationed on the ground to serve as a communication bridge between the UAV and web clients complete with features such as control interfaces for on-board systems as well as telemetry acquisition for the localization of images.

RUTGERS UNIVERSITY | WINLAB, Research Intern

Worked under Dr. Marco Gruteser

- Developed an Android application component that determines the centripetal acceleration of a device in a vehicle to detect if it is on the driver's side to aid in driver safety applications that block mobile device usage. http://www.winlab.rutgers.edu/gruteser/papers/paper_CR.pdf
- Developed an Android service which reads vehicle OBD-II data via Bluetooth so as to evaluate the safety of a driver.

PROJECTS

IoT Security | PIC32 - 2017

WiFi enabled doorway security and monitoring system complete with features such as an alarm, real-time data feed, and web/mobile interfaces for access and control from anywhere in the world I.ramvellanki.com/iot-security

MyGov | Android - 2014

Facilitates communication between Government officials and their respective constituents through an Android application that provides features such as polls and posts (Winner of House App Contest)

github.com/nishilshah17/HouseApp

Tap | Android - 2014

Prototype that leverages the built-in Android accelerometer to detect tap gestures on the sides of a device and perform tasks such as shuffling music or switching between apps (Top 10 App at HackRU)

tapapp.github.io

Projectile Motion | Android - 2012

An accurate graphical simulation of projectile motion with customizable launch speeds and angles displayed on a graph (3000+ installs on the Android Google Play Store) I.ramvellanki.com/projectile-motion

August 2018 - June 2020 | New York, NY

June 2020 – Present | Mountain View, CA

May 2017 – August 2017 | Mountain View, CA

July 2012 - August 2013 | New Brunswick, NJ

October 2015 – July 2018 | Ithaca, NY