

Sousheel Vunnam

Boulder, CO

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EDUCATION

UNIVERSITY OF COLORADO, BOULDER (2016-2020)

Computer Science + Applied Math B.S., GPA: 3.82, Engineering Honors Program

EXPERIENCE

RESEARCH ASSISTANT, COHRINT AUGUST 2017 - PRESENT

Building intelligence for robots that compete in a cops vs robbers game to investigate robot evasion tactics. Implementing robot navigation, human-robot interaction, and machine learning with the use of Robot Operating System and VICON technologies.

COURSE ASSISTANT, CU BOULDER AUGUST 2017 - DECEMBER 2017

Held office hours to assist and further students knowledge as well as created discussion on the forums for CSCI-2270: Data Structures.

RESEARCH ASSISTANT, CU IRONLAB MARCH 2017 - APRIL 2017

Conducted experiments to analyze gestural human interaction with robots to find which movements allowed for most intuitive control of robots. Implemented the most effective gestures into movement of TurtleBots using Leap Motion and Kinect sensors.

FOUNDER, VUNNAM TECHNOLOGIES LLC JANUARY 2015 - DECEMBER 2015

Initiated the company to release Scrimmage: an Android app that connects sports players. Crafted a business plan, marketing materials, and a budget. Support for the app has been discontinued.

ACTIVITIES

WRITER, ELECTRONIC COLORADO MARCH 2016 - JULY 2017

Reviewed and previewed local electronic music events, interviewed artists in the scene, and coordinated press releases.

PRESIDENT, ENGINEERING CLUB (HIGH SCHOOL) SEPTEMBER 2014 - MAY 2016

Participated in Real World Design Challenge 2014 and Zero Robotics with team of 10. Taught some members how to code (C++) and organized the workflow of the team.

Other: National Society of Black Engineers, RoboSub

PROJECTS

SKI-U SEPTEMBER 2017 - DECEMBER 2017

Carpooling website to get CU students to the mountains for skiing and snowboarding.

PLATONET AUGUST 2017 - PRESENT

A recurrent neural net that reads Plato texts and generates philosophical quotes.

DYVISUAL MAY 2017 - PRESENT

A dynamic VJing application built on OpenFrameworks aimed at simplifying visuals for independent DJs.

ADDITIONAL SKILLS

LANGUAGES

English - Native speaker, Telugu - Proficient at speech

INTERESTS

AI for creativity, DJing, Music Production, Soccer, Philosophy, Skateboarding

Technical Experience

Proficient:

Python

C++

Comfortable:

ROS

Git

Agile

Unix/Linux

Matlab/Octave

Machine Learning

- PyTorch

- Keras

Javascript

- Node.js

Familiar With:

SQL

Mathematica

Android Dev

Courses:

CU Boulder

- Data Structures

- Computer

Systems

- Software

Development

- Discrete Structures

- Applied Probability

- Diff EQ & Linear

Algebra

Audited

- Machine Learning

- Stanford

- Coursera

- CNNs for Visual

Recognition

- Stanford

- Reinforcement

Learning

- UCL

Website: sousheel.github.io

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GitHub: [sousheel](https://github.com/sousheel)