Dhruv Gowd

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Objective: To obtain a fulltime position in a software engineering/development role

Education:

Purdue University **Aug 2016 – May 2020**

Bachelors of Science in Computer Engineering

Skills: C, C++, Java, Python, Matlab, UNIX, Bash, Agile, Keras

Experience:

Fidelity Software Engineering Internship **May 2019 – Aug 2019**

- Worked as a software engineer and developed a REST API utilizing Springboot and Java
- Service allowed for the request of information of any security through the input of any identifier
- Aggregated data from multi-threaded calls to several backends
- Used Docker to make the service cloud deployable

Research:

Vertically Integrated Projects **Fall 2019 - Present**

- Researched algorithms utilizing computer vision and NLP to summarize building damage reports
- Proposed various end to end algorithms for text in images to computer text

Vertically Integrated Projects **Jan 2019 – April 2019**

- Worked in a team to develop a neural network which uses regression to map nonlinear color spaces

Projects:

Door-ID

- An embedded system which can recognize unknown persons at your door
- Persons are detected using a Haar Cascade Classifier and uploaded to Azure Face API
- The picture of the unknown person is sent to home owners phone via Slack

STM32 Smart Car

- Worked with a team of four to develop a self-driving car using embedded C
- Used an STM-32 to interface motors and sensors to drive the car autonomously

K-Means for Color Indexing

- Implemented K-means clustering algorithm for compression
- The algorithm divides pixel values into K groups and reassign pixel values to the appropriate group

Thermocouple Analysis

- Worked with a team of four to perform analysis of first order systems
- Utilized Matlab to smooth data curves to calculate metrics to analyze the trends in data

Centipede Game

- Used Java and OOP concepts to develop a working rendition of the popular arcade game Centipede

Applicable Coursework :

Data Structures & Algorithms, OOP, Computer Networks & Security, Embedded Systems
Introduction to Artificial Intelligence