

Vaibhav Yenamandra

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Education

University of Florida

Gainesville, Florida, U.S.A.

M.S. COMPUTER SCIENCE

Aug 2016 - Dec 2017(Est)

- Coursework: Programming Languages, Analysis of Algorithms, Pattern Recognition, Machine Learning, Data Mining

Birla Institute of Technology and Science, Pilani

Pilani, Rajasthan, India

B.E.(HONS) ELECTRICAL AND ELECTRONICS ENGINEERING

Mar. 2010 - PRESENT

- Coursework: Analog and Digital VLSI Design, Microelectronic Circuits, Communication Systems

Experience

Capgemini India Pvt. Ltd.

Mumbai, Maharashtra, India

CONSULTANT

Jun. 2014 - Jul. 2016

- Acted as liaison between business, development and QA stakeholders to ensure deliverables were met
- Acted as primary point of contact for a part of the project's software stack
- Automated 6 of 8 offshore reports leading to total time savings upwards of 3 hours daily

Projects

Distributed Bitcoin Miner

Coursework

DISTRIBUTED SYSTEMS, ELIXIR, ERLANG

Sep 2017

Used Elixir to implement a distributed coin miner that was capable of fully utilizing the host CPU and can join an existing network of miners to receive work from an external master.

Automatic Terrain Identification

Summer Research Project

CUDA, COMPUTER VISION, IMAGE PROCESSING

May 2017 - Present

This project performs automatic labeling of high-resolution satellite terrain imagery to identify segments such as forest, slums, urban areas, distributed using MPI. I was responsible for updating contour detection within each node to run on the GPU using CUDA.

Speech to Text

Coursework

MACHINE LEARNING

Jan 2017 - Apr 2017

Created a speech recognition app written in Python3. Came up with a novel voice activity detector that was used to identify speech activity in the input signal with low background noise.

Object Detection in Images

Coursework

PATTERN RECOGNITION

Jan 2017 - Apr 2017

Implemented, trained various deep neural network using tensorflow for detecting objects in images. The networks were trained on various hyper-parameter choices to later make a formal recommendation on choosing parameters

An image processing language

Coursework

COMPILER CONSTRUCTION

Jan 2017 - Apr 2017

Implemented a simple programming language with image processing primitives such as convolutions and blurs. The Java Virtual Machine was taken as the target for code generation.

Technical Skills

Programming Languages Python, C++, Java, C, Ruby

Positions of Responsibility

2017 **Project Leader**, Course Planner, UF Open Source Club

University of Florida