

Saheba Shaik

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Work Experience

DeepVision.io Software Engineer , Machine Learning Performance, C++,Python	Hyderabad May 3 '21- Present
Micron Tech. Inc. CAD automation software engineer, Python,c++	Hyderabad Aug 17 '20 - January 2021
MentorGraphics Automation Test Engineer Intern Worked on VeSys suite - used some java and oracle databases	Summer '19

Education

International Institute of Information Technology (IIIT) B.Tech (Hons.), Electronics and Communications Engineering, CGPA - 7.96/10	Hyderabad, India 2016–2020
Sri Chaitanya Junior College Senior Secondary, Telangana Board of Intermediate Education, Percentage - 96.3	Hyderabad, India 2014–2016
Gitanjali Senior School Secondary, ICSE, Percentage - 95.33	Hyderabad, India 2012–2014

Technologies

C++,Python,Caffe,Mxnet,TF,pytorch, Redis, Docker,Git,Jenkins,RabbitMQ,AWS

Projects

Maps

used a poi database and js to render some maps functionality like nearest route, zooming and basic search.

Dropbox

Used socket programming to develop a dropbox like application that downloads files from a peers storage directory and vice-versa .

Parallel Recommender System

Implemented parallel SVD for learning recommender matrix.

C++,CUDA

ANI-1 5 Molecules

Implemented ANI-1 model using 5 NNPs to predict atomic energies from Bahler-Parinello Symmetry functions of molecules.

Python,torch

Database

C

Basic database in C.

Dog bed database

Python

Database to handle backups in storage/memory elements.

Basic Git

Python

Some Git functionality.

Collaborative text editor

Ruby

Client-Server implementation of a text-editor collaborative.(front end is js).

Multiple Chat Room Communication

Java

Created a multiple chat room environment for multiple users so they can chat and transfer files through TCP or UDP in a chat room.Used Socket Programming with support for multi-threading.

Decaf Compiler

C++

- Designed a compiler for Decaf programming language, using tools like Flex and Bison, and LLVM as backend to execute instructions.

Research

Centre for Visual Information Technology

IIIT Hyderabad

Honor's Research

August 2018 – April 2020

Under Dr. Jayanthi Sivaswamy ,Studied U-net, feedback networks, weak supervised and unsupervised training of deep networks, proceeded to use feedback nets with ru-net and attention mechanism for cancer tissue segmentation, and hybrid repreenttions. could not get to publication.

Center for Algorithms and Security Research

IIIT Hyderabad

Independent Study

August 2019 – April 2020

Worked on a 'Neural ODE for ResNet' project under Dr. Pawan Kumar. Initially worked on fast kernel ridge regression and parallel kernels for large datasets.

Data Science and Analytics Centre

IIIT Hyderabad

Independent Study

August 2019 – April 2020

Studied Frequent Subgraph Mining Methods for single dynamic graphs and Transaction Setting.

Other (second year/older) Projects

CMOS modelling with given parameters

Cadence

Designed CMOS using paramters such as ICMR,PMRR,energy-leak,power,noise to signal ratio etc using cadence.

BASIC MIPS32 processor.

Verilog

ALU on 5-bits and multipliers ,shift-registers and datalines implemented in verilog,deployed on Xilinx fpga.

Acoustic Room shape geometry detection.

Matlab

Implemented an algorithm to detect room shape assuming cuboid geometry sizes lengths are estimated using room inverse responses ,RIRs from mulitple sources provided as datasetas described here.

Relevant Courses Taken

Statistical Methods in AI,Computer Programming,Data Structures, Algorithms and operating Systems,Discrete Mathematics, Group Theory & Linear Algebra,Probability & Random Processes,Computer Architecture,Communication Networks,Intro to Parallel Scientific Computing,Topics in Applied Optimization,

Ranks

JEE Advanced : 5773, JEE mains : 5993, mains score : 236, advanced score : 131.