SANKET NAYAK

Masters Computer Science Student

sanketn@umich.edu 248-835-3183 422 Packard St., 48104, Ann Arbor, MI
nayak-sanket sunnstix sunnstix.com

EDUCATION

MS — Computer Science

University of Michigan — Ann Arbor

April 2022 – April 2023 (proj.)

GPA: 4.0
Focus: Distributed & Parallel Computing

BSE — Computer Science

University of Michigan — Ann Arbor

Sept 2019 – April 2022

GPA: 3.95 **Major GPA:** 3.98
Minor: Business

COURSEWORK

Distributed Systems | Computer Organization | Web Systems | Machine Learning | NLP, IR & Web Search | Database Management Systems | Foundations of Computer Science | Operating Systems | Compilers | Computer Security

EXPERIENCE

Instructional Aide for Computer Architecture

University of Michigan

August 2021 - Current Ann Arbor, MI

- Lectured and led discussions about Computer Organization and developed course content with new hardware simulation projects in C. Also developed GPU accelerated cheat-checking software and tools for custom assembly language including SRE tool and C compiler

Software Engineer Intern

QOMPLX

May 2021 - Oct 2021 Tysons, VA

- Overhauled S3 client data registry feature of custom Python notebook implementation to aid in secure data retrieval using boto3 and created Python package for quick model training

Junior CMS & Backend Developer

Revize Government Websites

July 2018 – December 2020 Birmingham, Michigan

- Developed Java backends and optimized MySQL schemas & queries for 25+ website modules for content management service

TECHNICAL SKILLS

Software Development

Python | C++ | C | Java | Bash | R | Rust | Golang | Docker | Kubernetes | GNU Make(++) | ARM ISA | x86 ISA

Web Systems

JavaScript | Redis | MongoDB | MySQL | Flask | Postgres | Express | React | AWS (Lambda, S3, EC2, DynamoDB) | Apache (Kafka, Spark, Hadoop)

Machine Learning

Torch | TensorFlow | Scikit | NumPy | Pandas | OpenCV | Keras | Oryx 2 | Baidu AllReduce | Caffe2 | OpenCL

PROJECTS

Twitter Location Classifier

Project Lead

- Developed RNN (multilayer bidirectional LSTM) with GloVe embeddings with intensive training protocol using Torch, TensorFlow, and NLTK that achieves 13% accuracy in classifying tweets by state using only content of the tweets
- Presented on performance to Google LIT researchers

Distributed Audio Visualizer

Developer

- Developed real-time audio visualization system distributed across local network of ESP8266s light controllers performing audio analytics on MIDI inputs and distributed audio buffers
- Designed central UI server hosting controller application through UPnP and integrated it into Google Action Suite