Venkata Subba Narasa Bharath Meadam

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EDUCATION

Stony Brook University
 Master of Science In Computer Science
 GPA: 3.54/4

Master of Science In Computer Science

- Relevant Coursework - Operating Systems, Algorithms, Probability & Statistics

• Shiv Nadar University GPA: 8.24/10

B.Tech in Electronics And Communication Engineering

Aug'13 – May'17

EXPERIENCE

• Amazon Web Services Seattle, USA Software Engineer Intern Superior Seattle, USA

- Developed an Alexa skill to track the pre-onboarding process of new employees joining Amazon.

- Technologies used: AWS Lambda, S3, DynamoDB, API Gateway, IAM

Hewlett Packard Inc, PPS R&D Hub Software (Cloud) R&D Engineer I

Bengaluru, India Sep'17 – Jul'19

Designed and Implemented RESTful web-services for cloud printing for the next-gen HP Printers using Spring framework and deployed in AWS to support a load of 10 million printers with minimum latency.

Enhanced the Core Connectivity Layer of HP's Web Print Platform to reduce infra cost and deliver better performance.
 Reduced the cloud infra cost by 8% by optimizing the TLV packet exchanged between the HP printer and the cloud.

- Technologies/Concepts used: EC2, Lambda, S3, DynamoDB, Spring, Distributed Systems. Jenkins, Splunk

Software Engineer Intern

Jan'17 - Aug'17

Made a POC on "Enabling web services on HP's Inkjet printer using AWS IoT" which could be plugged into HP's existing cloud infrastructure.

TECHNICAL SKILLS

Programming : Java, Python, C, Spring, Hibernate, MATLAB, SQL, NoSQL database

Technologies and Frameworks: AWS, DynamoDB, IoT, Lamba, EC2, Maven, Git, Spring, Splunk, REST

ML Libraries : Numpy, TensorFlow, Pandas, Scikit-Learn, Keras, Open CV, Caffe

Operating Systems : Windows, Linux, macOS

PROJECTS

• Design and implementation of Dynamic Memory Allocation

- Implemented dynamic memory allocation of the heap in C programming for efficient usage of memory on a Unix platform.
- The design of the algorithm is the way to optimize the throughput and fragmentation of the allocated memory. Created own implementations of malloc, realloc and free for the x86-64 architecture.
- Concepts used: Memory allocation malloc, realloc, free, calloc.

• Statistical Analysis of COVID-19 in Chicago

- Performed Statistical Analysis on COVID-19 cases and fatalities reported in Chicago across different age groups and genders.
- Concepts used: Time Series Analysis, EWMA, Auro-Regression.

• Alexa Voice Skill for smart diagnosis(printer)

- Developed an Alexa Voice Skill to diagnose web-connected HP printers.
- Deployed the voice skill in AWS Lambda and the backend API's on AWS EC2 and AWS Dynamo DB for the database.

• Multi Threaded PBX Server in C

- Simulated the behavior of a Private Branch Exchange (PBX) telephone system by implementing a multi-threaded server in C.
- Implemented both calling and messaging features for multiple clients simultaneously
- Concepts used: POSIX Threads, Mutexes, Semaphores, Socket Programming.

• Implementation of Object Detection for Autonomous Driving

- Built a deep-learning model using YOLO algorithm to detect cars using the publicly available dataset from drive.ai.
- The model takes a plain input image and outputs a list of bounding boxes whichever objects it recognised as cars.

ADDITIONAL SKILLS/QUALIFICATIONS

• Deep Learning Specialization (Coursera)

• Machine Learning (Coursera)

Mar'18

Jul'17