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EDUCATION

- **Stony Brook University** Aug'19 – Dec'20
Master of Science In Computer Science
– **Relevant Coursework** – Operating Systems, Algorithms, Probability & Statistics GPA: 3.71/4
- **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 Jun'20 – Aug'20
 - 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** Bengaluru, India
Software (Cloud) R&D Engineer I 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) Mar'18
- Machine Learning (Coursera) Jul'17