

EDUCATION

- **Stony Brook University** Stony Brook, NY
*Master of Science in Computer Science; GPA: 3.74** Aug. 2019 – Dec. 2020
- **SRM University** Chennai, India
Bachelor of Technology in Computer Science; GPA: 3.81 (9.52/10.0) Aug. 2011 – July. 2015

EXPERIENCE

- **Sony PlayStation** San Diego, CA
Software Engineer Intern June 2020 - Aug 2020
 - **Vendor-Portal Service:** Responsible for creating an abstraction service from scratch, to provide vendor-secrets, removing the tight coupling from service to data source. Leveraged AWS Suite and Spring Boot.
 - **Chargeback API:** Implemented an orchestration flow to serve as a state machine for Chargeback functionality for Payment Gateway.
- **VISA Inc** Bangalore, INDIA
Software Engineer Apr 2017 - Jul 2019
 - **Identity & Access Management:** Streamlined IAM systems, by optimizing usability, developing over OpenID (Forgerock), OAuth and Federation related workflows for a Tier-0 application, serving gateway to 100+ services.
 - **Enrollment Workflows:** Redesigned features in .NET for user login flows and service entitlement pipeline, easing resource creation with smart suggestions and throttling test coverage to 85%+.
 - **Stack Test Tool:** Developed an automated performance monitoring tool to test end-to-end flow for the app, and assess server health/performance bottlenecks of the application, saving 70% of the manual effort hours.

Systems Analyst Jul 2015 - Mar 2017

 - **Dev Environment:** Wrote automation scripts for alerts monitoring and system health checks, also setup IFTTT type rules to take proactive actions based upon encountered issues.
 - **Jenkins Integration:** Managed 250+ Linux/Windows VMs for troubleshooting and deployment of infra/services
 - **Splunk Dashboards:** Visualized machine generated big data to check overall performance of various applications
- **Hasura** REMOTE
Product Development Fellow Nov 2017 - Feb 2018
 - **AI Chatbots & Alexa Skill:** Implemented conversational AI bots for Facebook messenger platform. Also deployed voice skills which gathered over 200+ activations within a month of Go-Live.
 - **Cloud-Native Apps:** Gained hands-on in microservices & K8's clusters, while working with CNCF systems.

PROJECTS

- **Retail Sales Analysis (Sklearn/Pandas):** Performed EDA on 1.7M records for hardware store. Used Apriori for market basket analysis, RFM for segmenting customers, T-SNE for grouping similar products and ARIMA model for time series forecasting.
- **Unified Summarization of Scientific Papers (NLP):** Extended existing approaches to implement a unified model, over Abstractive & Extractive ensemble, using bidirectional LSTM. Evaluated on ROUGE scores, with 43.08 recall.
- **Pose Detection (Pytorch):** Implemented PoseNet model on Human36M dataset to predict 3D poses from 2D sensor data. Implemented Kalman filter to correct noisy measurements from faulty sensors, with an average accuracy of 82%.
- **Scene Matching and Object Recognition (OpenCV):** Performed scene stitching using SIFT(Scale Invariant Feature Transform) features with Laplacian Pyramids.
- **Passwordless Ultrasonic Auth (Best Security Hack @CEWIT 2020):** A new factor for passwordless auth using ultrasound for data transfer. Uses QuietJS library which is an audio QR implementation for web browsers.

PROGRAMMING SKILLS

- **Languages:** Java, Python, Javascript, C++ **Technologies:** AWS, Docker, Kubernetes, Jenkins, Tableau, Git
- **Frameworks:** SpringBoot, Flask, TensorFlow, Pytorch, Keras, OpenCV **Databases:** MongoDB, SQL, LDAP