

## EDUCATION

### • Stony Brook University

**Stony Brook, NY**

Master of Science in Computer Science; GPA: 3.74\*

Aug 2019 - Dec 2020

Coursework: Data Science, Distributed Systems, Algorithms, Databases, Computer Vision, NLP, Visualization

Teaching Assistant: Collaborated with Prof. Esmail to facilitate office hours & grading for 'Data Structures' in Java.

### • SRM University

**Chennai, India**

Bachelor of Technology in Computer Science; GPA: 3.81 (9.52/10.0)

Aug 2011 - Jul 2015

Coursework: Data Structures & Algorithms, AI, Data Mining, Image Processing, OS, Network Security

## WORK-EXPERIENCE

### • Sony PlayStation

**San Diego, CA**

Software Engineer Intern

Jun 2020 - Aug 2020

- **Vendor-Portal Service:** Designed a microservice on top of payment gateway that provides configuration to deliver a route to different vendors hosted on the gateway. Leveraged **AWS Suite** and **Spring Boot**.
- **Chargeback API:** Proposed an **orchestration flow** to serve as a state machine for 'chargeback' functionality.

### • VISA Inc

**Bangalore, India**

Software Engineer

Apr 2017 - Jul 2019

- **Identity & Access Management:** Streamlined IAM systems, by optimizing usability, developing over **OpenID** (Forgerock), **OAuth** & **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:** Facilitated 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:** Authored **automation-scripts** for alert-monitoring and health checks; also setted up IFTTT type rules to take **self-healing** actions based upon encountered issues, reducing manual effort by 50%.
- **Jenkins Integration:** Managed 250+ Linux/Windows VMs for troubleshooting & **deployment** of infra/services.
- **Splunk Dashboard:** 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:** Performed EDA on 1.7M records for hardware store. Used **Apriori** for market basket analysis, **RFM** for segmenting customers, **T-SNE** for grouping products & **ARIMA** model for time series forecasting.
- **Visa Exclusive Marketplace:** Designed web-app for loyalty-driven project aimed at incentivizing VISA cardholders boost card payments, against exclusive offers/rewards, using VISA APIs, Facebook's OAuth2.0 auth and **Graph API**.
- **D3 Visualisation:** D3 Dashboard with **Flask** backend to assess impact of 'Novel Coronavirus' on the world
- **Restaurant Finder:** Delivered a full-stack application using Spring Boot framework and React.JS. Configured REST endpoints using **Hibernate** ORM and documented API using **SwaggerUI**.
- **Passwordless Ultrasonic Auth:** Researched on a new factor for authentication using ultrasound for data transfer. Used QuietJS library, an audio QR implementation for browsers. **Won Best Security Hack @CEWIT'2020**.

## PROGRAMMING SKILLS

**Languages:** Java, Python, Javascript, C++

**Technologies:** AWS, Docker, Kubernetes, Jenkins, Tableau, Git

**Frameworks:** Spring Boot, Flask, TensorFlow, Pytorch

**Databases:** SQL, LDAP, MongoDB, PostgreSQL