

## 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. Esmaili 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 (Part Time)* *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 Visualization**: 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