

EDUCATION

- **Stony Brook University** **Stony Brook, NY**
Master of Science in Computer Science; GPA: 3.74/4 *Aug 2019 - Dec 2020*
Coursework: Data Science, Distributed Systems, Algorithms, Databases, Computer Vision, NLP, Visualization
Teaching Assistant: Data Structures in Java (Spring'20)
- **SRM University** **Chennai, India**
Bachelor of Technology in Computer Science; GPA: 9.52/10 *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

- **Recovering Visual Encodings from Chart Images:** Developed an end-to-end text analysis pipeline that recognizes the text content using OCR, and classifies their role in the chart (e.g., bars, lines, points, or areas) using CNN and **AWS Rekognition API** (Ongoing project under Prof. Klaus Mueller at Visual Analytics and Imaging Lab)
- **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.**
- **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.

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