Utkarsh Garg

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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 experience 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 similar products and ARIMA model for time series forecasting.
- **Visa Exclusive Marketplace**: Designed a 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-COVID'19**: 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 backed by PostgreSQL DB. Configured REST endpoints using Hibernate ORM and documented API using SwaggerUI.
- **Passwordless Ultrasonic OAuth**: A new factor for passwordless authentication using ultrasound for data transfer. Uses QuietJS library which is an audio QR implementation for web 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, PostreSQL