UTKARSH GARG

Software Engineer

📱 (631) 215 6568

🌐 http://utk1801.github.io/
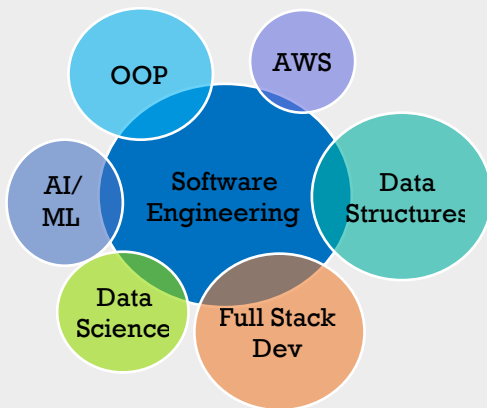
✉️ ugarg@cs.stonybrook.edu

in/utk1801

utk1801

SKILLSET

Overview

Programming

Java • SQL • Git

AWS Lambda • Python • SpringBoot

C++ • Node.js • HTML/CSS • Docker

.NET • React/D3.js • TensorFlow • Unix

Coursework

Data Structures & Algorithms, Distributed Computing, Databases, Computer Vision, NLP, Visualization, Data Science, Probability & Statistics, Operating Systems, Network Security

JOB STATUS

Graduating Dec 2020
Seeking Full-Time opportunities in SDE / AI / ML.

Education

2019 - 2020 (Expected)	**Master's Degree in Computer Science** (GPA: 3.74/4)	Stony Brook University, NY
2011 - 2015	**Bachelor's Degree in Computer Science** (CGPA: 9.52/10)	SRM University, INDIA

Experience

June 2020 - Aug 2020 — **Software Engineer Intern** — Sony PlayStation, CA

Vendor Portal Service
- Designed a microservice on top of payment gateway that provides configuration to deliver a route to different vendors hosted on gateway.
- Leveraged SpringBoot framework & AWS technologies like Lambda and Secrets Manager. Unit testing in Mockito, and Cucumber for BDD.
- **Streamlined merchant/vendor onboarding, which was strategic in expansion of Payment Gateways across different geographies.**

April 2017 - July 2019 — **Software Engineer** — VISA Inc, INDIA

Identity & Access Management
- Streamlined IAM systems, by optimizing usability and developing over OpenID (Forgerock), OAuth & Federation related workflows for a Tier0 application, serving gateway to 100+ services.
- Redesigned features in Java for user login flows and service entitlement pipeline, easing resource creation with smart suggestions and throttling test coverage to 85%+.
- **Facilitated performance monitoring tool to test end-to-end flow, and perform stack testing of web proxy layer for the app, thereby saving 70% of manual effort hours, during deployments.**

July 2015 - Mar 2017 — **Systems Analyst** — VISA Inc, INDIA

Dev Environment
- Authored automation scripts for alert monitoring & health checks, also setted up IFTTT type rules to take **self-healing actions**.
- Managed 250+ Linux/Windows VMs for troubleshooting app/infra.
- Visualized machine generated big data using Splunk Dashboards.

Nov 2017 - Feb 2018 — **Product Development Fellow (Part Time)** — Hasura, INDIA

AI Chatbots & Alexa Skill
- Designed conversational chatbots on FB Messenger and deployed Alexa voice skills which gathered 200+ activations within a month of Go-Live.
- **Gained hands-on in microservice & K8 clusters while working with CNCF systems.**

Projects

- **Retail Sales Analysis:** *Python, Sklearn, Pandas, Numpy, Plotly*
  Analyzed 1.7M sales record using Apriori for market basket analysis, RFM for segmenting customers, T-SNE for grouping products & ARIMA for time-series forecasting.
- **VISA Exclusive Marketplace:** *Java, FB OAuth, Graph API*
  Designed web-app for loyalty-driven project aimed at incentivizing VISA cardholders boost card payments, against exclusive offers/rewards, as part of Hackathon.
- **Pose Detection:** *Pytorch, OpenCV*
  Implemented PoseNet model on Human36M dataset to predict 3D poses from 2D sensor data. Used Kalman filter to correct faulty sensor readings, with average accuracy of 82%.
- **D3 Visualization for COVID'19:** *D3.js, Python Flask*
  Formulated an interactive dashboard to assess impact of 'Coronavirus' on the world.
- **Restaurant Finder:** *Java SpringBoot, React.js*
  Delivered a full-stack application, and configured REST endpoints using Hibernate ORM and documented API using SwaggerUI.
- **Passwordless Ultrasonic Auth:** *Javascript, HTML/CSS*
  Researched on a new factor for authentication using ultrasound for data transfer. Used QuietJS library, an audio QR extension for browsers. ***Won Best Security Hack Award.***