

UTKARSH GARG

Software Engineer



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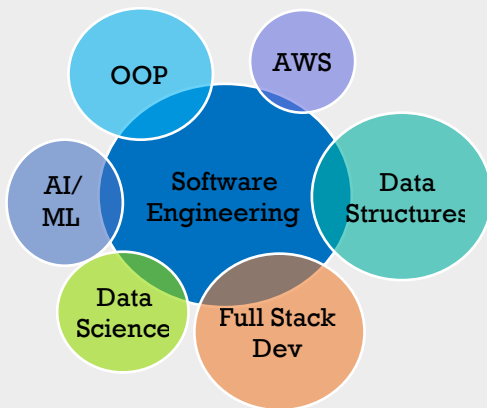
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[utk1801](#)

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

Education

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

Experience

- June 2020 - **Software Engineer Intern** [Sony PlayStation, CA](#)
- 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 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 - **Software Engineer** [VISA Inc, INDIA](#)
- July 2019 **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 - **Systems Analyst** [VISA Inc, INDIA](#)
- Mar 2017 **Dev Environment**
- Authored automation scripts for alert monitoring & health checks, also set up IFTTT type rules to take **self-healing actions**.
 - Managed 250+ Linux/Windows VMs for troubleshooting app/infra.
 - Visualised machine generated big data using Splunk Dashboards.
- Nov 2017 - **Product Development Fellow (Part Time)** [Hasura, INDIA](#)
- 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.
 - Gained hands-on in microservice & K8 clusters while working with CNCF systems.**
- ## Projects
- Retail Sales Analysis:** [Python, Sklearn, Pandas, Numpy, Plotly](#)
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.
 - Pose Detection:** [Pytorch, OpenCV](#)
Implemented PoseNet model on Human36M dataset to predict 3D poses from 2D sensor data. Used Kalman filter to correct noisy measurements from faulty sensors, with an 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 implementation for browsers. **Won Best Security Hack @CEWIT'2020.**