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UTKARSH GARG

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EDUCATION

Stony Brook University, Stony Brook, New York

Aug 2019 - Dec 2020*

- Master of Science in Computer Science (Fall'19 Intake): Current GPA: 3.67/4.0
- Graduate Coursework: Data Science, Computer Vision, Natural Language Processing, Analysis of Algorithms

IIIT Bangalore, Bangalore, India

Sept 2018- Aug 2019

Post Graduate Diploma in Full Stack Software Development (Upgrad/Online)

SRM University-Kattankulathur, Chennai, India

Aug 2011 - May 2015

- Bachelor of Technology in Computer Science Engineering | CGPA: 9.52/10
- · Coursework: Data Structures & Algorithms, Al, Data Mining, Image Processing, Operating Systems, Network Security

EXPERIENCE

Software Engineer

VISA Inc, Bangalore, India

Apr 2017 - Jul 2019

- Streamlined Identity & Access Management systems, by optimizing usability and developing over OpenID (Forgerock), OAuth and Federation related workflows for a Tier 0 application (VISA Online), serving gateway to 100+ services in the background.
- Improved features including overhaul of user signup/login flows and service entitlement pipeline, adding 2FA workflows, easing
 resource creation with smart suggestions and throttling functionality test coverage to 80% by improving error/exception visibility.
- Developed a Stack Test tool to test end to end auth flow from Proxy->Login-> Sharepoint home page for the app, thereby helping assess server health and performance bottlenecks of the application.
- Spearheaded idea of creating a "Visa Exclusive Marketplace", a Loyalty-driven project aimed at incentivizing existing VISA Cardholders boost card payments, in return for exclusive offers/rewards, using VISA APIs. Selected for Regional Finals-Hackathon.
- Leveraged Facebook's OAuth2.0 auth-protocol and Graph API, in Spring Boot ,for profiling cardholders' social media profiles, to extract their interests/likes for personalized offers.

Systems Analyst:

VISA Inc, Bangalore, India

Jul 2015 - Mar 2017

- Managed component provisioning for 250+ Linux/Windows VMs, handling configuration & deployment of infra services .
- Worked on machine generated Big Data and developed Splunk dashboards to check overall performance of various applications.
- Developed scripts to automate workflow of server remediation, reducing manual time by 50 % and manual errors by 80%.
- Worked actively on critical SSL Certificate Upgrades and developed scripts to proactively check certificate expiry.

Product Development Fellowship

Hasura, Bangalore, India

Nov 2017 - Feb 2018

- Implemented Chatbots for Social Media platforms, for my FB page. Link: https://hasura.io/hub/users/utkarsh/
- Developed Voice Skills for Amazon Alexa(live on Skill store). Gathered over 200+ activations within a month of Go-Live.
- Gained hands-on on Microservices & K8's clusters, while working with CNCF (Cloud-Native) systems.

Summer Intern

HP, Lucknow, India

May 2013- July 2013

· Worked on Securing Linux Servers from Network Attacks, using Backtrack OS. Recognized as the best performer in the batch.

PROGRAMMING SKILLS

- · Languages: Java, Python, Javascript, C++, C, .NET, SQL
- Platforms & Tools: Spring Boot, PyTorch, TensorFlow, Keras, MEAN Stack, MySQL, Google Colab, GitHub, Visual Studio, Eclipse.

PROJECTS & RESEARCH

- Retail Data Sales Anlaysis(Sklearn/Pandas) Performed EDA on dataset of 1.7 million records for an Hardware store. Used Apriori for Market Basket Analysis, RFM for segmenting customers, WordCloud(T-SNE) for grouping related products, ARIMA modelling for time series forecasting. Also estimated Line psychology of a cashier while billing.
- Pose Detection (Pytorch): Implemented PoseNet model on Human36M dataset to predict 3D poses from 2D sensor data. Implemented Kalman Filter to correct noisy measurements from faulty sensors.
- Unified Summarization of Scientific Papers using Abstractive + Extractive Ensemble (NLP): Developed on existing approaches to implement a Unified model using Bidirectional LSTM, evaluated on ROUGE scores => 43.08 recall.
- Convolutional Neural Network (Deep Learning | Pytorch | TensorFlow | OpenCV): Designed a CNN model from scratch, to perform 16-way image classification, highest accuracy observed was 92% with fine tuning of Alex Net.
- Scene Classification and Object Recognition using SVM (OpenCV/Sklearn): Created Bag of SIFT feature representation of the images using KMeans Clustering and Histogram of gradients, trained SVM classifier with accuracy close to 80%.

AWARDS & CERTIFICATIONS

- DevOps Certified | Edureka | License https://edureka.co/verify | ID : BTTVBVTA
- ITIL Certified | APMG International | License ITIL/2000603220
- Recognised with 'Go Beyond' award for my automation work at VISA Inc
- Outstanding Performance award at HP India, Ltd. during HPES Summer Internship
- Immersive Data Science Program | Greyatom | License https://www.credential.net/w95pzloj
- Neural Networks and Deep Learning by deeplearning.ai (Instructor: Andrew Ng)| Coursera | License 93XU2LHY83A9
- Developing Applications with Google Cloud Platform Specialization | Coursera | License A6XDCT7WBWHK