Rishabh Narang

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EDUCATION

Columbia University — New York, NY
M.S. in Computer Science — Sep 2019 — Dec 2020

G.G.S Indraprastha University — New Delhi, IN
B.Tech. in Information Technology — Aug 2014 — Jun 2018

SKILLS AND RELEVANT COURSEWORK

Languages	Python3, GoLang, Java, C++, JavaScript, JQuery, HTML, CSS
Libraries	Pandas, SK-Learn, NumPy, NetworkX, iGraph, OpenCV, Keras, TensorFlow,
Frameworks	Bootstrap, Flask, Django, NodeJS, VueJS, AngularJS, ReactJS
Database	MySQL, MongoDB
Coursework	Algorithms, Data Structures, Databases, Artificial Intelligence, NLP, Operating Systems, Advance Spoken Language, Cloud Computing, Applied Deep Learning, Computation & Brain

EXPERIENCE

MathWorks — Boston, MA
Software Developer — May 2020 — Aug 2020

· Created **Data Feed Pipeline (NoSQL)** to fetch MathWorks' Traffic and Security metrics using **GoLang**
· Developed a **serverless architecture with AWS Lambdas** and performed analysis on gathered Traffic Data
· Worked through the **elicitation, architecture, and system design** phases of the project in a **CI-CD** lifecycle
· Developed the **front-end on Vue.JS for dynamic rendering** on a static loader (**AWS S3**)

inVoid Technologies — New Delhi, IN
Software Developer — Jan 2019 — Apr 2019

· Developed and integrated the company's Facial Recognition System in a desktop application using **Java**
· Developed **Cloud APIs (AWS EC2, Apache, Flask)** to integrate with web, mobile, and desktop-based clients.
· Programmed image scraper **(Selenium)** to enhance the Data Pipeline (Cleanup, Normalization, Feature Reduction)
· **Handled cloud server AWS-EC2 packet drops (from 70% to 1.5%)** using Supervisord (Linux)

Manav Rachna Innovation & Incubation Center — Haryana, IN
Software Developer — May 2017 — May 2018

· Developed and deployed **(REST APIs)** for an attendance software using **Django and MySQL**
· Developed **Full-Stack-Web Framework** for an automatic drink disposal machine (**NodeJS-Loopback**)
· Designed **interface along with API** for IoT based product and performed data analysis and prediction
· Worked on **Google Cloud Platform** tools to deploy the servers and manage remote database architectures

PROJECTS

Take a Break, Grab a 'Cookie' (Windows Native App) — July 2020 — July 2020
. Built a 'Get a Break Reminder' ***Windows App using C# on .NET Framework*** that sends notifications and controls screen brighntes as per the timer. Qualified under ***Top-20 teams*** for MathWorks HackDay finalists amongst 100+ teams from MathWorks.

Spoken Emotion Analysis — February 2020 — March 2020
. Categorized and analyzed different speech recordings under different emotions (Fear, Angry, Disgust, Neutral, Happy, Sad, Astonished) using ***Praat, ParselMouth and Python3***

Dialogue Act Recognition — March 2020 — April 2020
. Using feature sets, extracted from the phone call transcriptions ***trained a machine learning classifier*** to identify and ***predict the 10 most frequent dialog acts***

Emotion Recognition in Speech — April 2020 — May 2020
. Extracted speech-prosodic features using ***Praat, and openSMILE to train a random forest classifier*** for predicting the emotions of the given speech recording

Columbia Sculpture Classification — January 2020 — February 2020
. Developed a ***custom CNN to classify the sculptures at Columbia campus***, such as Alma Mater, Columbia Lion, etc.

Smart Door Authentication System — March 2020 — April 2020
. Developed a ***Facial Recognition system*** that grants access to verified personnels, else sends a verification email to the owner to add it to the known-face database