Rishabh Narang

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EDUCATION

Columbia University — New York, NY
M.S. in Computer Science — Dec 2020
- Graduate Teaching Assistant for Cloud Computing, Graduate Research Assistant for Spoken Language Lab

G.G.S Indraprastha University — New Delhi, IN
B.Tech. in Information Technology — Jun 2018
- Published two academic papers under the research topic: Social Networks Analysis

TECHNICAL SKILLS

- **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, Kubernetes
- **Tools**: Docker, Kafka
- **Database**: MySQL, NoSQL, MongoDB, PostgreSQL
- **Coursework**: Algorithms, Databases, Artificial Intelligence, NLP, Spoken Language, Cloud Computing, Deep Learning

PROFESSIONAL EXPERIENCE

MathWorks — Boston, MA
Software Engineer (Intern) — May 2020 - Aug 2020
- Developed **Data Pipeline** to fetch Traffic and Security Metrics in **GoLang NoSQL** (one query per transaction)
- Constructed a Traffic Metrics Analysis **serverless architecture** saving **415+ hours** of human efforts per year
- Handled **huge amount of data logs** by making **Go Routines and Channels** to avoid rendering delays
- Devised a **Cron** pipeline for GitHub Security and License files thus diminishing 'Out of Compliance Repos' by **80%**

inVoid Technologies — New Delhi, IN
Software Engineer — Jan 2019 - Apr 2019
- Developed and integrated OCR on ID Cards, and reduced verification **time from one week to fifteen seconds (Flask)**
- Designed and deployed **Cloud APIs (AWS EC2, Apache, Flask)** to integrate with web, mobile, and desktop clients
- Saved **200+ man hours** by creating a Data Cleaning Pipeline for Facial Recognition **(Python3, Selenium)**
- **Reduced cloud server AWS-EC2 packet drops (from 70% to 1.5%)** leveraging Supervisord (Linux) and Redis

Manav Rachna Innovation & Incubation Center — Haryana, IN
Software Engineer — May 2017 - May 2018
- Constructed (**REST APIs**) for an attendance system (**Django and MySQL**) to drive out manual attendance process
- Increased revenue by **$40,000** a year by working on an Automatic Drink Disposal Machine (**NodeJS Loopback**)
- Designed **interface along with APIs** for IoT based product and performed data analysis and prediction
- Leveraged **Google Cloud Platform** tools to deploy applications and manage remote database architectures

PROJECTS

Take a Break, Grab a 'Cookie' (Windows Native App) — Jul 2020 - Jul 2020
- Created 'Get a Break Reminder' *Windows App in C# on .NET Framework* to send notifications and control screen brightness as per the timer. Qualified under *Top-20 teams for MathWorks HackDay finalists* amongst 100+ teams

Emotion Recognition in Speech — Apr 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 from a transcript of actual phone-call recordings

New York Times News Modeling — Mar 2020 - Apr 2020
- Devised an application by implementing *Non-Negative Matrix Factorization* algorithm to learn topics based up 8500 documents collected from The New York Times with a vocabulary size of 3000 words

Photo Clusters — Mar 2020 - Apr 2020
- Inspired by Google Photos classified every image given the cluster. Using a collection of photos, added labels according to properties fetched by *Amazon Rekognition*. Built an *ElasticSearch* to easily fetch the label according to user query thus displaying the relevant photos fetched from *Amazon S3*. Used *Amazon Cognito* for OAuth and *DynamoDB* to store user profiles in *NoSQL* database design

ReSearch Book — Oct 2019 - Dec 2019
- Motivated from the functionalities offered by Research Gate and StackOverflow, built a Full Stack Web App *Python3 Flask, PostgreSQL, Google Cloud* allowing researchers to post articles, users to follow different researchers, ask questions on articles, and up-vote down-vote comments, along with hash-based secured login