

# YUKTI KHURANA

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## EDUCATION

### Columbia University

*Masters in Computer Science, Machine Learning Track, GPA: 4.0/4.0*

Relevant Courses: Databases, Algorithms, Cloud Computing & Big data, UI Design, AI, Applied ML, Computer Vision

New York, NY

Expected Dec 2022

### Malaviya National Institute of Technology

*B.Tech. in Computer Science & Engineering, GPA: 9.31/10.0 (Dept. Rank: 3/100)*

Relevant Courses: Data Structures & Algo., Software Engineering, NLP, Object Oriented Programming, Operating Systems

Jaipur, IN

Jun 2021

## TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, JavaScript, HTML5/CSS, SQL, XML, GraphQL, React JS

Frameworks: Ruby on Rails, Flask, Scikit-learn, Pandas, NLTK, NumPy, TensorFlow, Keras, Junit

Databases & Cloud: MySQL, AWS, Amazon DynamoDB, MongoDB, Firebase

Tools: Git, Android Studio, VS Code, Postman, PyCharm, Jupyter, Jira, RubyMine, Kanban, NetBeans, Datagrip, Eclipse, LaTeX

## WORK EXPERIENCE

### Justworks, Inc.

*Software Engineer Intern*

New York, NY

Jun 2022 – Aug 2022

- Built over 10+ new APIs handling thousands of employee profiles, and payroll data leveraging GraphQL and Ruby on Rails
- Refactored company calendar and migrated legacy jQuery code using React to a more robust, secure & fault tolerant UI design
- Achieved 50% increase in calendar loading speed by preventing denial-of-service attack by previous implementation
- Implemented Slack Bot for automating 5+ manual new hire onboarding tasks providing responses, notifications & reminders

### JPMorgan Chase & Co.

*Software Engineer Intern*

Bengaluru, IN

Jun 2020 - Jul 2020

- Developed a multi-user learning platform using test-driven agile development, targeting hundreds of under-resourced children
- Tested and deployed platform using Android, AWS, & Parse-server while collaborating using JIRA, Confluence and Bitbucket
- Optimized application by proposing data caching to deliver a 20% reduction in storage and cost requirements
- Improved product by designing 3 new features of offline compatibility, drag-and-drop content creation & Text-to-speech

### Centre for Railways Information Systems (CRIS), Ministry of Railways

*Software Engineer Intern*

New Delhi, IN

May 2019 - Jul 2019

- Designed a responsive website to track and filter resource utilization data of Oracle databases of millions of employees
- Compared 15+ data integration & business analytical tools to suit organizational database migration requirements
- Researched and presented methodologies to senior management for Solution Architecture of Data Warehouse in a team of two
- Contacted over ten cloud and ELT tools' vendors to gather actionable insights for faster accommodation of OLAP technologies

## PROJECTS

### Virtual Cinema Application

Oct 2021 - Dec 2021

- Developed a scalable EC2 web application using AWS cloud for hosting an interactive video watch party for up to 4 users
- Leveraged AWS Cognito and SES for user authentication and Amazon DynamoDB for storing information of millions of users
- Integrated app frontend in React with backend AWS cloud stack and designed 11 Lambda functions to handle backend logic
- Implemented API Gateway to handle 8+ API calls for fetching users, watch history, scheduling events and sending messages

### Voice-Controlled Photo Gallery using AWS

Oct 2021 - Nov 2021

- Designed a scalable photo gallery web app for uploading & searching millions of photos through both text & voice
- Created a responsive front-end UI-design leveraging JavaScript, HTML/CSS, hosted on AWS S3 bucket
- Utilized Lex, Rekognition, API Gateway & OpenSearch to design an intelligent search layer for optimally querying photos
- Automated release pipelines using CodePipeline & CloudFormation for rapid and reliable delivery of features and updates

### Restaurant Concierge AI Chatbot

Sept 2021 - Oct 2021

- Developed a serverless chatbot with event-driven microservices using S3, Lambda, SQS, Lex, DynamoDB & ElasticSearch
- Designed a recommendation pipeline for automatically sending restaurant suggestions through texts based on user preferences
- Scraped thousands of restaurants through Yelp API and enhanced recommendations based on previous customer chats

### Stock Market Predictor based on Deep Learning and Sentiment Analysis

Oct 2020 - Apr 2021

- Constructed over 16 datasets by scraping financial news data and stock prices of 15+ global companies spanning two decades
- Employed Sentiment analysis & Differential privacy to create a model capable of evaluating 220,000+ records in seconds
- Built deep learning models with Python and Keras for adjusted close price prediction of stocks to ease investment and trading
- Proposed a solution achieving a 0.26% boost in RNN and LSTM price prediction performance and an error reduction of 45%

## ACTIVITIES

### Graduate Course Assistant - Systems for Human Data Interaction, Columbia University, NY

Sep 2021 - Dec 2021

Assisted in classroom instruction, held office hours, graded, and answered assignment questions and updated course website.