

NIKHIL KALA

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EDUCATION

Masters in Computer Science

University of Utah

May '23

Salt Lake City, Utah

B.E in Computer Science (CGPA 8.23 with double honors)

Panjab University

May '19

Chandigarh, India

Relevant Coursework

- Advanced Algorithms
- Data Mining
- Neural Networks
- Software Engineering
- Artificial Intelligence
- Deep Learning
- Operating Systems
- Advanced Databases

Technical Skills

Languages: Python, C/C++, SQL, Java

Frameworks/Libraries: Robot, Keras, Selenium, TensorFlow, Openpyxl

Software and Tools: Celery, Jira, Git, Tkinter, Docker, Yaml, TensorBoard, MongoDB, RabbitMQ

Experience

Graduate Teaching Assistant - Algorithms

University of Utah

Aug '21 – Present

Salt Lake City, Utah

- Teaching algorithms, complexities and formal proofs along with setting programming assignments and autograder.

Software Engineer I

Deloitte

Jun '19 – Jul '21

Bangalore, India

- Undertook development role for cloud-based mergers and acquisitions tool for clients, augmenting financial knowledge.
- Formulated REST APIs for calculations engine, decreasing the business user wait time from hours to minutes.
- Developed and implemented Automation framework based on self-proposed architecture, reducing time from 600 seconds to ~ 30 seconds per test case.
- Designed and Implemented Excel APIs for automated excel generation/parsing for various financial template settings.

Technical Analyst Trainee

Deloitte

Jan '19 – May '19

Hyderabad, India

- Created cron job for routine Mongo database cleanup which optimised the database by deleting unreferenced docs.
- Executable parsing tool made for Excel to Yaml/Json conversion for confidential data within the organisation.

Research Intern

Design Innovation Center (DIC)

Jun '18 – Jul '18

Chandigarh, India

- Explored machine learning and developed a model for the regressive analysis of walking data.

Software Engineer Intern

Indian Space Research Organisation (ISRO)

Jun '17 – Jul '17

Dehradun, India

- Researched and developed a web module that automatically archived satellite orbital path data.

Selected Projects

Categorical Encode (Python package) | *Python, DataFrames, Pandas*

- [Published](#) python package that can be used to pre-process categorical data.

ReSort - Resume Sorter | *Python, Flask, NLTK, HTML, CSS*

- Developed resume ranker for HR department that classified and ranked resumes based upon various job domains.

Autonomous Issue Reporting System | *Python, Keras, Tensorflow, OpenCV, IoT*

- An IoT system developed for Ministry of Roadways during SIH National Finals (2018), this system provided real-time traffic violation reporting, vehicle detection and speed estimation along with number plate detection.

Secure Distribution of Restricted Documents | *Python, AES, HTML, Bootstrap*

- A web application developed for ISRO during SIH National Finals (2017), providing authorized access to confidential documents, encrypted files and had biometric authentication.

Leadership / Extracurricular

- **Co-Founder/Administrator:** Co-Founder/Admin of the GitHub org, [The Algorithms](#). (200,000+ repository stars)
- **Publication:** “[Person Identification and Characterization from Gait Using Smartphone](#)” in 11th COMSNETS, 2019.
- **AWS Deepracer Pro:** Top 10% in reinforcement learning based, car race simulator league.
- **President:** President of the NGO, **Mitra** for 2017-18.