

# Daanish Goyal

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## EDUCATION

- **University Of Florida** Gainesville, Florida  
*Master of Science - Computer Science; GPA: 3.45* *August 2021 - December 2022*  
**Courses:** Analysis of Algorithms, Database Management Systems, Distributed Operating System Principles, Computer And Network Security, Software Engineering, Math For Intelligent Systems, Digital Health, Human-Computer Interaction.
- **Manipal University** Jaipur, India  
*Bachelor of Technology - Computer and Communication Engineering; GPA: 3.33* *July 2017 - May 2021*  
**Courses:** Operating Systems, Data Structures and Algorithms, Cryptography and Security, Programming using C, Java Programming, Computer Architecture, Wireless Sensor/Adhoc Networks, Automata Theory.

## EXPERIENCE

- **Software Development Engineer Intern** Franklin, Tennessee  
*Aitudier* *June 2022 - August 2022*
  - Collaborated in designing and implementing a Learning Management System and created **RESTful APIs** in Python using **Flask** for desired front-end integration.
  - Implemented an auto-scaling and flexible cloud system by deploying web app using **EC2, VPC, RDS** and configured IAM roles to control **AWS** users and groups.
  - Defined automation and engineered CI/CD pipeline from scratch to migrate application to DevOps standard.
- **iOS Software Development Intern** Delhi, India  
*Neo Sypher Systems Pvt. Ltd.* *May 2019 - July 2019*
  - Designed the User-Interface with **SwiftUI** and delivered RESTful API endpoints for an iOS Dictionary mobile application.
  - Tested and optimized performance by reducing **55%** of load time and occasional lag through implementation of efficient code optimizations and profiling techniques.

## PROJECTS

- **MyLearning Place**(*ReactJS, GO, MySQL, HTML, CSS*)
  - Led a team of 4 to create a full-stack web application in a **scrum** environment, followed and applied **HCI eight golden** design rules.
  - Instituted API endpoints, administered and maintained database, ran Unit and Cypress tests to deliver high-quality code and assisted with set up of **Docker** containers for deployment into Kubernetes Pods.
- **Maternal Health Risk Prediction**(*Python, Numpy, Pandas, Scikit-learn*)
  - Developed a Maternal Health Risk **prediction model** utilizing **machine learning classifiers** (Naive Bayes, Random Forest, Support Vector Machine), and evaluated performance based on accuracy, precision, recall, and F1 score.
  - Applied **feature selection** techniques such as Forward Selection, Information Gain, and Correlation Coefficient for assessing **determinants** of maternal health, achieving an accuracy of **87.49%**.
- **Bit torrent Simulator**(*Java, Socket Programming*)
  - Developed a **P2P** file-sharing system, using **TCP/IP** protocols, handshaking and bit-fields to track different pieces in peers.
  - Deployed efficient and industrial level code to make program robust and reduce execution time by **20%** on remote linux servers situated in a different country.
  - Incorporated special message types to choke, un-choke thereby increasing download speeds up to **50%**.
- **Crimes in Vancouver**(*SQL, OracleDB, PHP, ChartJS*)
  - Devised web interfaces to project complex SQL trend queries, from a real-time large scale Oracle database (upwards of **250,000 tuples**) focusing on retrieving new information from data set.
  - Interpreted and operated on real-life crime data provided by Vancouver city police department to discover **meaningful trends** and further projected data-points by leveraging libraries as **ChartJS**.

## TECHNICAL SKILLS

- **Languages** Python, Java, C/C++, Go, Swift, F#, Linux, SQL, Julia
- **Frameworks** Scikit-learn, Numpy, Pandas, TensorFlow, Django, Flask, NodeJS, ReactJS
- **Tools** Kubernetes, Docker, GIT, PostgreSQL, MySQL, SQLite, AWS

## PUBLICATIONS

- Cost Aware BAT Algorithm for Task Scheduling in Cloud Computing - ICRIC2021, Innovation Patent by the Australian Government.