

# DHRUV DOSHI

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## EDUCATION

**Master of Applied Science, Computer Science**  
Dalhousie University | GPA: 3.9/4.3

2021-Expected 2022

**Bachelor of Engineering, Computer Engineering**  
Gujarat Technological University | CGPA: 9.34/10

2016-2020

## SKILLS

**Programming Languages:** C, C++, Java, Python, Solidity, JavaScript  
**Cloud Technologies:** AWS, GCP, Azure, Docker, Kubernetes, Heroku, CI/CD Pipelines  
**Artificial Intelligence:** TensorFlow, TFLearn, Keras, PyTorch, Scikit Learn  
**Data Science:** Pandas, NumPy, TensorFlow, PyTorch, Matplotlib  
**Blockchain:** Erc-20, Remix, MetaMask, Ganache, Truffle.js, Hyperledger Fabric  
**Frameworks:** React.js, Vue.js, Django, Flask, Spring  
**Databases:** MongoDB, MySQL, DynamoDB  
**Tools:** GIT, JIRA, Postman

## PROFESSIONAL EXPERIENCE

### Teaching Assistantship

Delivered weekly labs for a group of fifty students

- CSCI-5409 – Advanced Topics in Cloud Computing
- CSCI-1109 – Introduction to Data Science
- CSCI-2134 – Software Development

January 2022 – Present  
September 2021 - Present  
September 2021 – December 2021

### Blockchain Developer

July 2020 – December 2020

Freelance Project / Cryptovantage

- Develop an Illicit transaction detection system on cryptocurrencies single-handedly. Used JavaScript, Python and GO language. Tested the product for vulnerability and potential threats. Working with a huge amount of transaction data.
- Selected by the Netherland government for funding and integration with 5AMLD systems.
- Developed using Python, Go, Solidity, Node.js, MongoDB, CI/CD Pipelines
- Tools used GitHub, Jira, Remix, AWS, Unix

### Founder & Developer

June 2018 – June 2020

DCS-BBN / DCScoin (Decentralized Cloud Storage Based on Blockchain Networking)

- Developed enterprise cloud storage solution based on Blockchain with 6 raid data backups with distributed systems, backed up by cryptocurrency DCScoin.
- Selected by Supreme Incubators, Delhi for funding and further development.
- Developed using C, Python, Go, Solidity, Node.js, Ethereum, Ganache, Truffle, Flask, Linux.
- Tools used GitHub, Azure, Hyperledger Fabric, MetaMask and ERC-20 contracts.

## RESEARCH

### Research Assistantship

September 2021 - Present

- Developed tracing table generation system for given code.
- Enabling the graphical Interface to understand the flow of an algorithm.

Research paper, “Blockchain-based Decentralized Cloud Storage” on Blockchain published in International Journal, “International Conference on Mobile Computing and Sustainable Informatics” affiliated by Springer.

## HACKATHONS

### SRM Hackathon

- Represent university on the national level and got into top 10 teams out of 1500 across India.
- Developed offline payment systems backed up by NFC and Bluetooth.

### DCB Bank Hackathon

- Invited for the first-ever fintech hackathon in the city because of the previous research work.
- Developed first-of-kind blockchain banking gateway for DCB bank.
- Secured Position in Top 7 teams overall.

### Ahmedabad University Hackathon

- Developed an Artificial Intelligence algorithm to rectify the transactions and find the best path for solving any issues.
- Secured third position in 147 teams overall.

## PROJECT

### Flight Price Agent | [GitHub](#)

September 2021 – December 2021

Graduate Project – Python, Pandas, TensorFlow, Scikit Learn

- Designed an agent which suggests to users whether they should buy the ticket at the given price or wait for a better price in future. All existing ML algorithms only predict the price but this one ensures that the user will have the ticket for sure and that too with the best price
- Developed models like CNN, SVM, Q-Learning, DQN, DDQN with Python Libraries

### Cloud Booking Portal | [GitHub](#)

May 2021 – August 2021

Graduate Project – Nodejs, Python, AWS, CI/CD, Docker, Heroku, CI/CD

- Developed an online booking portal completely with AWS cloud services. CI/CD Pipeline to Deploy.
- Followed the SOLID principles, agile development, git workflow, AWS services, serverless approach and hosted the web application with Heroku and implemented ML and AI Insights within the project. Published docker image and made compatible with NPM packages for direct setup.

### Relational Database Management | [GitHub](#)

May 2021 – August 2021

Graduate Project – Java, CI/CD, Jira, Timberlea, Heroku

- Developed simulation of Database Management design System from scratch by deciding conceptual framework, implementing main modules like authentication, set database methods, query processing, ERD Generation etc. and integrating them.
- Developed a Data dictionary that dynamically tracks the metadata files and developed Select, Update, Use and Delete parsers that contributed to the basic CRUD operations of the database.

### JavaScript Projects

Personal Projects

- Blog Page | [GitHub](#)
  - Blogs on Cloud Computing and Blockchain Technology.
- Video Calling | [GitHub](#)
  - Secure single-channel video calling between two devices.
  - Allows multiple graphical filters for both the users.
  - Always open application will start working instantly
- GIF Search Engine | [GitHub](#)
  - Search any GIF from the internet with a single click. Develop using core Java Scripts.

## CERTIFICATIONS

- Hacker Rank Gold level for Problem Solving and Python
- Machine Learning Certification from Stanford University
- Python & Machine Learning Certification from IBM
- Machine Learning Certification from Google
- Artificial Intelligence Certification from Nvidia