

# Kaushal Mhalgi

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## EDUCATION:

### Arizona State University

Aug 2019 - May 2021 (Expected)

Master of Science in Computer Science

CGPA: 3.78/4

- **Relevant Courses:** Foundation of Algorithms, Statistical Machine Learning, Data Visualization

### University of Mumbai

Aug 2015 - May 2019

Bachelor of Engineering in Computer Engineering

CGPA: 8.68/10

- **Relevant Courses:** Object Oriented Software Engineering, Computer Networks, Data Structures, Mobile Computing, Cryptography and System Security, Artificial Intelligence, Machine Learning

## PATENT:

Title: A System and Method for Blockchain-based Energy Trading, (IN - App. No. 201921031929)

August 2019

- The new layer over ethereum blockchain to provide energy trading and lending using monopoly-prevention algorithm establishing a competitive environment is the prime objective of the patent

## RESEARCH PUBLICATION:

GreenCoin: Empowering Smart Cities using Blockchain 2.0

January 2020

- Published in January 2020 in IEEE Xplore Journal (DOI: 10.1109/ICNTE44896.20198946014)

## EXPERIENCE:

Graduate Research Aide, Blockchain Research Lab, Arizona State University

Sept 2019 - Present

- Researched various Blockchain architectures including Hyperledger Fabric, Composer, Ethereum which involves the foundations, ordering, and execution of transactions in the Blockchain.
- Developed a sample supply-chain application using Hyperledger Fabric.

Application Developer Intern - Digital Vibes, London, England (Remote)

January 2017 - December 2017

- Developed a full stack web-mobile application named 'Kuendo' using ReactXP (a cross platform app dev framework) to provide functions like chat, cab-booking, profile dashboard to the user.
- Studied and developed POCs for React-Native and Nativescript frameworks

## TECHNICAL SKILLS:

- **Programming Languages:** Java, Python, C++, JavaScript, TypeScript, Android-Programming
- **Web Development:** HTML, CSS, PHP, NodeJS, React, Angular, React-native, React-XP
- **Blockchain Frameworks:** Geth, Hyperledger Fabric, Microsoft Azure Workbench
- **Databases:** MySQL, MongoDB, Firebase Realtime database, Firestore, SQLite, SQL server

## PROJECTS:

Green Currency: Efficient power distribution in devices using Blockchain 2.0 - University of Mumbai

May 2019

Developed a competitive system for smart and optimized power distribution among smart devices which makes use of a token called 'GreenCoin' (developed using ERC-20) to maintain a validator-reward system on Ethereum.

**Technologies used:** Blockchain 2.0, Geth, NodeJS, Web3, Python, Solidity, MySQL, JQuery

Group Facial Emotion Recognition - V.E.S. Institute of Technology, Mumbai

November 2018

Developed an application to predict the overall group emotion using deep learning which uses a tensorflow deep learning tool to achieve the goal. To predict the emotions, the AI used six classifications based on facial expressions.

**Technologies used:** Tensorflow, Keras, Python, OpenCV, Tensorflow JS, Javascript, C++

Electronic Health Record System - V.E.S. Institute of Technology, Mumbai

March 2018

Developed a web-based system to store and organize the medical reports and prescriptions uploaded by medical agencies. Only authorized personnel can update the data in the database through the secure login portal.

**Technologies used:** Java, JQuery, HTML5, CSS3, PHP, MySQL, JavaScript, MongoDB

Frendso: Social Media Website (Personal Project)

May 2016

Developed a social media website based on advanced technologies like Blockchain (for decentralization of data) and AI (for chat-bot and suggestions). This project also involves the development of chat and file management SDK/APIs.

**Technologies used:** Javascript, JAVA, PHP, Node JS, Python, Geth