

# Uddesh Karda

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Portfolio : <https://portfolio-app-uddesh.herokuapp.com/>

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## OBJECTIVE

- To obtain a full time position in the software development industry using my programming skills. Graduation date is May 2021

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## EDUCATION

### ROCHESTER INSTITUTE OF TECHNOLOGY

Master of Computer Science (GPA: 3.3/4)

Rochester, NY  
Aug 2018 - May 2021

### VES INSTITUTE OF TECHNOLOGY, CHEMBUR

B.E.in Information Technology (GPA: 7.4/10)

Mumbai, India  
Aug 2014 - May 2018

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## EXPERIENCE

### CYCLOTRON GROUP

Software Engineer Intern

Remote  
May 2020 - Jul 2020

- Built a helpdesk bot for Microsoft teams using Microsoft bot framework(c#), QnAmaker and azure storage tables
- Added ticket support functionality to bot for end users
- Added ticket viewing and interactive handling abilities for admins in Microsoft teams using Node.js and Embedded JavaScript template engine

### ESDS SOFTWARE SOLUTIONS [CODE]

Software Engineer Intern

Nashik, India  
May 2019 - Jun 2019

- Built a web app for admins to keep track of openstack swift statistics using React.js, Node.js, Chart.js frameworks and material UI

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## PROJECTS

### PORTFOLIO PROJECT [CODE]

- Built a portfolio for myself showcasing my projects and my skills.
- The portfolio system was built using React.js and material UI.

### IMAGE CONVOLUTION FROM SCRATCH [CODE]

- Built the image convolution process code from the ground up using Python
- The current code only supports filters of size 3x3.

### IMAGE TO SPEECH CONVERTER [CODE]

- The purpose of this project is to extract the text in an image, produce a pdf of the extracted text and convert the extracted text to speech, which will be voiced through an android device. This project was built keeping in mind the end users such as blind people, tourists and students.
- Using OpenCV python library for image preprocessing and Tesseract OCR engine for scanning the images, the text in the image will be converted to a pdf after which the android inbuilt text to speech API will be used to convert the text in the pdf to speech.

### QUORA QUESTION PAIR MATCHING [CODE]

- Developed a system to take a set of questions which were posted on quora, as input and detect whether the questions are similar or not.
- Natural Language Processing Toolkit (NLTK) available in python was used to create this system.

### ANALYSIS AND MINING ON YELP DATASET [CODE]

- In this project, Yelp dataset was used to build relational model and NoSQL model.
- These models were further mined on for interesting queries.
- The datasets were also mined for interesting patterns using the apriori algorithm.

### MAZE SOLVER [CODE]

- Built an efficient maze solver from scratch in Python to traverse a maze and find a path to the goal state.
- The maze solver was built using Python and was based around the A-star(A\*) algorithm.

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## SKILLS

- **Programming Languages:** Python, Java, C#, Javascript, SQL
- **Other Technologies:** Microsoft bot framework, QnAmaker, Embedded JavaScript template engine
- **Web Designing:** HTML5, CSS, Bootstrap, Material UI, Vanilla JavaScript, React.js, Node.js