# Avadhoot Khedekar
Software Engineer

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## EDUCATION

### Bachelors of Engineering
MCT's Rajiv Gandhi Institute of Technology, Mumbai

08/2017 - 06/2021                    9.37 CGPA

Courses
- Computer Engineering

## WORK EXPERIENCE

### Software Engineer (Full time)
Zeus Learning Pvt. Ltd.

06/2021 - Present                    *Mumbai, India*

*working on cloud based educational product with agile software development team.*

Responsibilites
- build moduler, optimised components in C#, javascript, react, nodejs, php which are supported in all browsers and used by millions of users.
- maintain extension that supports sticky annotations on all webpages and integrate it with platforms viz. classroom, canva using REST APIs.
- Enhance pdfviewer for optimised page rendering, download, comments, search functionality and integration with extension and other platforms.
- modularise existing code to reduce development time for upcoming features and fix bugs.

### Front-end Web Developer (Intern)
Brandyse Media Pvt. Ltd.

05/2020 - 07/2020

Responsibilties
- Developed multiple webpages using HTML, CSS, Javascript as per the Figma design.
- Designed webpages in wordpress using Elementor page builder and Figma.
- Created responsive and interactive webpages that supports all resolutions.
- Hosted the website on hostgator hosting service with active SSL certificate.

### Workshop Instructor (Intern)
RoboRise Technologies Pvt. Ltd.

12/2019 - 12/209

Achievements/Tasks
- Developed an Arduino code for the walking mechanism of a Quadruped Robot.
- Calibrated the code according to the parameters received from MATLAB simulation.
- Taught the working of code to around 35 students in a workshop.

## SKILLS

Javascript   C++   C#   Python   React
Node   HTML   CSS/SCSS   SQL   MongoDB
Object Oriented Programming

## PERSONAL PROJECTS

### Personal Portfolio (04/2021 - 04/2021) ↗
- Developed using HTML, CSS, Bootstrap and Javascript.
- Highly responsive, interactive across all media devices and hosted securely on Netlify hosting service.
- Libraries viz. gsap, anime, lettering, waypoints and keyframes are used for animations.
- Optimized for FCP by deferring render blocking code in libraries and lazyloading media files.

### Track My Money - an expense tracker (04/2022 - 06/2022) ↗
- a web-app, built with react for client side, node for server APIs that uses MongoDB ATLAS cloud database and is hosted on Netlify.
- User authentication is carried out by encryption and JWT token.
- Incorporates feature as create/update/delete expenses. Attach respective image to each expense where images are securely stored in cloudinary bucket.
- User can create accounts for different source of expenses. Various parameters are given to filter out the records and records can be exported in excel sheet.
- a currency converter also available which gives real time values through API.

### Notes Classifier (07/2020 - 08/2020) ↗
- It segregates media files into two categories viz. educational and non-educational.
- A CNN is trained using Tensorflow on approx. 1200 images of both categories which achieved the f1-score of 87%.
- Videos, pdfs are handled in an efficient way to make them compatible for input to the neural network.
- Multiprocessing is used to fractionate the load on each process to carry out heavy processing efficiently for videos and pdfs.

### Maze Solver (04/2020 - 04/2020) ↗
- A python script that accepts a maze in image format and provides optimal solution to solve the maze.
- The grids of the maze are analyzed using openCV and solutions is generated recursively using A* path finding algorithm .

## ACHIEVEMENTS & PUBLICATIONS

### Optimizing Images in Webpages Article ↗
*Explain various techniques to embed images to optimize webpage load time yet maintaining the image quality.*

### Hackerrank
*Achieved 5 stars in problem-solving section in python.*

### President at RGIT's Robotics Club (08/2020 - 06/2021)
*Led a team of 30 students which participate in various robotics related competitions and conduct the technical workshops in colleges.*