

RAHUL PATTANKAR

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SUMMARY

Currently pursuing Master of Science in Computer Science at Old Dominion University. I have had the experience of working on projects which involved creating web-apps involving work with technologies like Nodejs, express, react, nestjs, nextjs, mikro-orm, postgresql, mysql, tailwind, python-dash etc. Some of the project/research also required me to work with neural networks, Natural Language Processing, object detection, gaze tracking etc.

TECHNICAL SKILLS

Tools & Frameworks: ReactJS, ExpressJS, NodeJS, Dash, Django, Flutter, NestJS, NextJS

Machine Learning: SVM(Support Vector Machines), KNN classification, K-means Clustering, Apriori

Design and Modelling Tools: Excel, Powerpoint, Base

Programming: Python, C, C++, Java, JavaScript, Dart

Certifications: Machine learning A-Z: Hands-On Python & R in Data Science (44.5 hours) (Udemy certification) Certificate URL – [ude.my/UC-09167737-2fd3-464c-9c3d-9b0951bca393](https://udemy.com/certificate/UC-09167737-2fd3-464c-9c3d-9b0951bca393) - March 2021, Cryptography and Information Theory (8 hours) (University of Colorado) Certificate URL – <https://www.coursera.org/account/accomplishments/certificate/EG4LAKRRWC4Y> - September 2021, Symmetric Cryptography (13 hours) University of Colorado) Certificate URL - <https://www.coursera.org/account/accomplishments/certificate/GQAB37SHJHCR> September 2021, Inter-professional healthcare informatics (11 hours) (University of Minnesota) Certificate URL - <https://www.coursera.org/account/accomplishments/certificate/LN2UTD2AT94Y> September 2021

ACADEMIC PROJECTS

Course Advising Portal(Full Stack Project)

Spring 2024

designed and developed a course advising portal

- This course advising portal was created using Nodejs/ Express(Backend), React and MySQL, along with tailwind-CSS.
- The portal included features like Login, Sign-up, verification through email, reCaptcha, home page, forget password, reset password and a discussion forum, course advising form.
- Also created an admin user who can approve or reject login requests, view details of different users/students, approve or reject advising requests.

Visual Accessibility Android App

Fall 2024 - Summer 2025

designed and developed an android app using Flutter and Django.

- This app was created using Django(backend), Flutter(front-end) and postgresql.
- This app captures images for a fixed interval and zooms, where the person is looking after identifying whether the person is having difficulty reading the screen.
- Using an LLM and a VFM to identify the confusion/difficulty reading the screen and tracking their gaze i.e. the user's gaze.

Machine Learning Data preprocessing using CLI

Fall 2021 – Spring 2022

Used command line interface to import and preprocess data to be used in a machine learning model using python

- Developed team schedule, including quality measurement for each major milestone

Easy stock visualization and prediction

Spring 2023

Designed and developed a web page interface using Python Dash for the prediction of stock prices for a given date by the user.

- Provided share price visualization along with current statistical predictions using the support vector machine.
- Allowed comprehensive visualization of current share prices and predicted prices in the future.

EXPERIENCE

Old Dominion University, Norfolk, Virginia: Full Stack Developer

August 2024 - May 2025

- Designed and implemented the backend using NestJS, ensuring robust and scalable API endpoints.
- Developed the frontend with Next.js and React, creating an intuitive and responsive user interface.

- Managed database operations with MikroORM and PostgreSQL, optimizing for performance and reliability.
- Containerized various services using Docker to ensure seamless deployment and scalability.
- Successfully deployed the platform on an RHEL 9 server, ensuring high availability and security.
- Conducted thorough testing and debugging to ensure the platform's stability and security.

EDUCATION

Master of Science in Computer Science

Old Dominion University

Graduated May 2025

3.7 GPA

Relevant coursework : Introduction to Data Science and Analytics, Foundations of Computing, Algorithms and data structure, Web Programming

B.Tech Computer Science and Communication Engineering

Kalinga Institute of Industrial Technology

Graduated October 2022

3.83 GPA

Relevant coursework : Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Architecture, Computer Intelligence, Professional Communication, Theory of Computation, Computer Networks, Web Programming, Object Oriented Concepts