



ABHISHEK MITTAL

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Education

IIT DHARWAD

Mechanical Engineering :8.0 CPI

Dec 2020 – April 2024

Minor in Computer Science Engineering

Relevant Coursework

- Data Structures and Algorithms
- Object Oriented Programming
- Database Management System
- Operating System
- MERN Stack Development
- Android Development
- Machine learning
- Deep learning

Experience

Trainity | *NodeJs, MongoDB, Bootstrap, Embedded Javascript, jQuery*

June 2023 - Present

Full Stack Developer Intern

Remote

- Spearheaded development of a dynamic Admin Panel website enabling managers to monitor employee progress, incorporating streak-based design, task submission, level progression, project tracking, and leaderboard functionality.
- Employed AWS pre-signed URLs to facilitate local image hosting, optimizing data management and user experience.
- Integrated Google authentication for seamless and secure sign-in, enhancing user accessibility and data privacy.

Synthem | *AWS, Node, Express, Socket, WebRTC, MongoDB*

Sep 2022 – Feb 2022

Back-end Developer Intern

Remote

- Implemented JWT token-based authentication for secure login, ensuring data integrity.
- Developed optimized backend APIs (stories, posts, reels) using Node.js and Express.js.
- Utilized AWS services (Lambda, DynamoDB, S3) and MongoDB for efficient hosting and data management.

Better-Talk IND | *Node, Express, MongoDB, React Native*

May 2022 – Aug 2022

Android Developer Intern

Remote

- Assisted in development of the front end of a mobile application for iOS/Android using React Native framework.
- Worked with Redux-toolkit and handled local updates and async requests.
- Implemented OTP verification using email and Used JWT for generating token, bcrypt for hash password .
- Utilized Android Studio as a development environment in order to visualize the application in both iOS and Android.

Projects

DOJU Android Application | *Google Cloud, AWS, Node, Express, React-Native, Redux-Toolkit*

December 2022 

- Hosted API's on AWS using Lambda function, S3 bucket for maintaining back-end server
- Enabled fast filtering according to live location and used hindi-english language translator.
- Developed Front-end using React-Native and Redux-Toolkit
- Used S3 bucket for getting uploaded image url from Front-end

Simulation using Machine Learning | *Machine learning, Deep Learning, Python, Ansys*

November 2022 

- Simulated a model using Ansys workbench to find stress concentration distribution in a bending beam
- Created a linear regression python model using pandas, Sklearn numpy library to train the model
- Used more than 900 simulations to train the model using HCP and achieved an accuracy of 97% with this model

Securing Neural Network Execution Through Parallelization Python,C++,Data Structure,Algorithm May 2022

- Conducted impactful research project focused on algorithm development, successfully proposing four advanced scheduling methods for Heterogeneous Computing tasks. Published findings in International Conference on VLSI Design.
- Transformed time complexity from exponential to polynomial by applying heuristic algorithms, showcasing expertise in optimization and algorithmic design.
- Developed understanding in python scripting, implemented data structures to come up with better algorithms.

Technical Skills

Languages: C++, C, Python, Java, HTML, CSS, JavaScript, MySQL

Developer Tools: VS Code, Jupyter Notebook, Google Cloud Platform, Amazon Web Services

Technologies/Frameworks: React, Embedded Javascript Node, Express, Socket, WebRTC, GitHub

Achievements

- Published a research paper in the IEEE journal.
- Held the position of Technical Member at the College Career Development Cell.
- Successfully cleared Level 1 of Flipkart Grid 5.0 competition.
- Accomplished over 1200 problem-solving exercises on platforms like Codeforces, Codechef, GeeksforGeeks, and LeetCode. Codeforces Rating: 1312, GeeksforGeeks Score: 650+