ROMIK AMIPARA

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EDUCATION

University of Southern California   Los Angeles, CA
Master of Science in Computer Science   Jan 2022-Dec 2023
Coursework: Analysis of Algorithms, Machine Learning, Web Technologies, Database Systems

University of Mumbai   Mumbai, India
Bachelor of Engineering in Computer Engineering   Aug 2017-Jul 2021
Coursework: Cloud Computing, Operating Systems, System Programming & Compiler Construction, Distributed Computing, Data Structure & Algorithms, Computer Networks, Cryptography & Security, Computer Architecture, Database Management

WORK EXPERIENCE

Agnels Robotics Club   Mumbai, India
Lead Software Developer: Dynamic Data Management Portal   May 2020-May 2021
- Led a team of 3 to design and manage a dynamic web app that helps users interact and view data
- Developed an inventory management system which helps users to track bot inventories, track profit, and money spent, reducing manual tracking by 80%
- Implemented a backend-server using Django, complete with an admin console, allowing admins to push live data to web app

Paramatrix Technologies Pvt. Ltd.   Mumbai, India
Software Development Intern   May 2019-Oct 2019
- Created a service to automatically perform various search and sort operations on the Khan Academy API
- Incorporated scripts using Python and Unix to aggregate the API query results into an organized format, so daily testing can be performed
- Implemented dynamic user interfaces using modern web technologies

SKILLS

- **Programming languages:** C++, Python, JavaScript, R, SQL, Shell Script, PHP, CSS, HTML
- **Tools:** AWS, Azure, GCP, SaaS, Git, Anaconda, Hadoop, Postman, Jupyter Notebook Docker, Linux
- **Frameworks & Libraries:** Django, React, Node.js, Scikit-Learn, Selenium, Beautiful Soup, Pandas, Seaborn, Dash

PROJECTS

Mumbai University: Gardening for You   Jun 2020-May 2021
- Developed a smart gardening tool, an automatic IOT-based gardening system that takes care of the garden from anywhere in the world
- Designed an interactive front-end with React.js and efficiently used Django Rest API to establish smooth communication between software and hardware
- Trained a plant disease classification model with an accuracy of 93% by utilizing Plant Village dataset

Mumbai University: Exam Hall Ticket Generation System   Aug 2019-May 2021
- Proposed digitalization of exam cell working with a team of 3; Built an interactive website having student and admin portal with ReactJS, Redux at frontend for fetching, rendering data from back-end with Django, REST Framework
- Automated and managed Exam cell activities; Developed website to generate hall tickets, verify student forms; Reduced manual labor by 80%; Accepted and integrated into current ERP of FCRIT; Deployed website on college server
- Mentored and led a team to further work on security aspects and development process of project

Mumbai University: Twitter Sentiment Analysis   Sep 2020-Nov 2020
- Designed and implemented an information retrieval and classification system for sentiment analysis on Twitter; presented it using a dynamic website
- Crawled tweets on user's timeline from Twitter API, and extract JSON responses using Requests module
- Cleaned, parsed, and segmented tweets content; counted most frequent words and hashtags associated with each emotion and deployed the system using AWS EC2 instance

LEADERSHIP

- Conducted several coding competitions, hackathons, and many technical events as a secretary of the Computer Society of India. Motivated and managed an organization of over 30 members towards a goal of improving community service