Pranav Rao Rebala

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EDUCATION

BABSON COLLEGE, F.W. OLIN GRADUATE SCHOOL OF BUSINESS — M.S - Business Analytics *Expected Graduation May 25*

PES UNIVERSITY, Bangalore, India — B.S. Computer Science *Graduation May 24*

Relevant Coursework: Machine Learning in Business, Strategic Communication with Data, Economic Analysis for Business Decisions, Entrepreneurship Analytics, Data Structures, Linear Algebra, Python Programming, Machine Intelligence, Data Analytics

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WORK EXPERIENCE

Rezolve AI — Full Stack Intern *Jan 24 - Feb 24*

- Implemented branch-per-ticket strategy for efficient code management based on a React app, reducing code conflicts by 20%.
- Executed multiple UI changes with a focus on Tailwind CSS, improving user experience and design consistency by 30%.
- Handled UI changes related branch merges & created PR's on Atlassian Bitbucket, revamping collaboration and ensuring smooth code integration, cutting review time by 25%.

Wipro Ltd — Full Stack Intern *Jul 23 - Oct 23*

- Bolstered the development of a key internal portal using React, Vite, Node.js/Express.js, SQL, and Azure, streamlining operations and reducing manual tracking time by 40%.
- Designed and implemented a dynamic dashboard frontend, enhancing data visualization by 30% through efficient data fetching with Axios and seamless transitions using React Navigation.
- Orchestrated Azure deployment with Azure Functions for dynamic scaling and MS SQL for backend management, ensuring 99.9% availability through Role-Based Access Control.

Forfend Cybernatics — App Developer Intern *Jun 23 - Jul 23*

- Leveraged advanced low-code skills and Deluge scripting in Zoho Creator to develop and deploy a Mining Management System (MMS) with QR-code-based route tracking, improving operational monitoring and leading to a 15% boost in efficiency.
- Utilized React, React Router, Axios, and Bootstrap to create a seamless user experience, with React Hook Form reducing submission errors (e.g., missing fields, invalid data) by 30%.
- Managed the MMS on AWS EC2 instances, optimizing cost-efficiency by 20% and ensuring scalability for ongoing operations.

Flutura Business Solutions — Data Science Intern *Jun 22 - Aug 22*

- Processed drone flight data, including battery fluctuations and noise, using Flutura's Engineering Work Bench.
- Provided key insights that contributed to simulations showing a 25% improvement in battery efficiency and a 15% reduction in noise levels.
- Analyzed sensor data for drone failure cases using digital twin concepts, resulting in 20% decrease in maintenance costs.
- Researched and evaluated 10+ AR/VR tools, selected Vuforia, and integrated it with Unity.

PROJECTS

CharGen - Character Generation (Capstone Project) | ⌗ *pranavrebala/CharGen* *Python, FReMP Stack*

- Employed diffusion pipelines for 2D facial and body representations, combining DECA and PifuHD models. Utilized the FReMP stack to render and display a functional 3D character model on a portal storing and displaying 100+ models.

Hadoop-MapReduce | ⌗ *pranavrebala/Hadoop-MapReduce* *Python, Client-Server Socket Programming*

- Constructed a Python-based multi-node Hadoop MapReduce framework on Ubuntu, showcasing expertise in distributed systems,socket programming, and parallel processing concepts.

TECHNICAL SKILLS

Languages: Python, JavaScript, C/C++, SQL, PHP, HTML/CSS, Deluge, R
Technologies: React, Node, Express, MongoDB, Docker, Azure, AWS, Jupyter, Numpy, Pandas, Matlab, Tableau, Socket Programming

PUBLICATIONS

1. Synthesizing 3D Faces and Bodies from Text: A Stable Diffusion-based Fusion of DECA and PIFuHD. IEEE 9th I2CT, 2024. ✳
2. Optimal IPL Playing 11 Team Selection. IEEE 8th International Conference for Convergence in Technology (I2CT), 2023 ✳