

Akanksha Pawar

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EDUCATION

Worcester Polytechnic Institute

Master of Science, Computer Science

Worcester, MA

May 2024

Savitribai Phule Pune University

Bachelor of Engineering, Computer Science

India

May 2021

EXPERIENCE

Frontend Developer Intern | ProsperOn, MA

Mar 2024 – Present

- Leading the front-end development for Version 2 of the product, focusing on revamping multiple designs and implementing a component-based architecture to transform Figma designs into dynamic interfaces
- Developing interactive UIs with **TypeScript/React**, optimizing code, integrating backend via **RESTful APIs**
- Enhancing web app performance, updating legacy code, and ensuring adaptable design

Application Developer Intern | Ithaca Clean Energy, MA

Jun 2023 – May 2024

- Developed a dashboard that allows offshore wind developers to post mariner updates, share industry news, manage upcoming events, and communicate directly with fishermen
- Utilized **React**, **Node.js**, **JavaScript**, and **AWS** to build and maintain the platform, integrating various functionalities through **REST APIs** for seamless operation
- Collaborated with a 5-member team, merging design and development to boost user engagement through feedback

Research Assistant | Worcester Polytechnic Institute, MA

Jan 2023 – Apr 2023

- Spearheaded a project aimed at automating the scoring of algorithm questions through advanced **NLP** research
- Designed an automated scoring system using **Flan-T5** models, conducted a comparative analysis with **SBERT**, and leveraged the **Bloom** model for constructive student feedback generation
- Achieved 78% accuracy, marking substantial improvement in reliability of algorithm question assessment

Associate Software Engineer | Accenture, India

Sep 2021 – Aug 2022

- Collaborated in a team of 7, overseeing and maintaining four database applications for a pharmaceutical client
- Enhanced database performance by 20% through optimization techniques in **MySQL** and **Oracle SQL**, contributing to the seamless operation of critical systems that processed over 1 million transactions daily

PROJECTS

Consignment Shop

Sep 2023 - Dec 2023

- Led a team of 4 to develop an application for listing and purchasing computers in a store over SDLC iterations
- Engineered the backend to interact with **Amazon RDS** using **AWS Lambda** and **Amazon API Gateway**
- Integrated Store owner, customer view, and authentication with the **RESTful APIs** using **React**, **JavaScript**

AnimeFlix

Jan 2023 - Apr 2023

- Designed a recommendation system for personalized anime suggestions tailored to user preferences
- Employed Collaborative and Content-based filtering with **PyTorch**, implemented in **Python**, for tailored suggestions, used **React** for the user interface, and integrated with a **Flask** backend for smooth operation
- Achieved high satisfaction rate, with 90% of users content with personalized anime recommendations

MEANS-Medical Emergency Automated Notification System

Mar 2023 – Apr 2023

- Developed a **Kotlin** android app for automatic fall detection, alerting emergency contacts with user location
- Enabled sharing of user's medical history from **Firebase** with emergency responders to enhance efficiency
- Achieved 80% accuracy in fall detection during testing, confirming app reliability

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C++, Kotlin, Java, SQL, PHP, HTML/CSS, D3.js

Data Management and Analytics: MySQL, MongoDB, PostgreSQL, Apache Spark, Hadoop, Firebase

Developer Tools/Frameworks: React, Node.js, Flask, QT creator, Cypress, Docker, Git, AWS, GCP, Azure, Jira