

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

- Enhanced the Android app's UX by identifying bugs and using **Kotlin** for development and maintenance
- Ensuring app stability and performance through rigorous testing and QA, resulting in a 96% satisfaction rate
- 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

Teaching Assistant | Worcester Polytechnic Institute, MA

Jan 2023 – Dec 2023

- Assist instructors of CS528: Mobile and Ubiquitous Computing, CS4432: Database Management Systems II and CS/DS4433: Big Data Management in facilitating class activities and aiding 40+ students, utilizing my **Kotlin, Java, Python, Docker, Hadoop, Spark, MongoDB** skills.

Research Assistant | Worcester Polytechnic Institute

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, 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 the Store owner view, customer view, and authentication with the **RESTful** backend APIs using **React** and **Material UI**, enhancing user experience and interface responsiveness

BFileDB

May 2023

- Engineered a command line-driven database management system in **Java**, leveraged a file-per-table model
- Implemented SQL operations and integrity constraints for streamlined data management
- Utilized B+ Trees for physical storage and indexing, with each file system page corresponding to a tree node

2X2 Madness

Sep 2023

- Developed a board game using **React** and **JavaScript**, enabling players to clear the board by selecting and rotating color groups in one of three configurations

- Efficiently deployed and managed the game's hosting on **Azure**, ensuring smooth access and gameplay

Resume Builder

Nov 2023 - Dec 2023

- Developed a resume builder with **Django, Python, React**, and **JavaScript** using **SQLite** for data storage
- Enabled secure user authentication and facilitated the storage of multiple resume templates using SQLite
- Incorporated a11y (accessibility) features to enhance usability for individuals with disabilities, ensuring the resume builder complies with web accessibility standards

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**-based Android app that enables automatic detection of falls using sensor data and emergency room visits, triggering alerts to emergency contacts with the user's location
- Integrated functionality to share the user's medical history, stored on **Firebase**, with hospitals and emergency responders, enhancing response efficiency in critical medical situations
- Conducted testing where the application accurately detected 80% of falls, emphasizing its reliability

Online Bookstore Management System

Sep 2022 – Dec 2022

- Created an Online Bookstore Management System using **MySQL** on **AWS RDS** for data hosting, and **AWS Quicksight** for sales data visualization
- Employed **PHP** for backend development, creating an extensive platform for streamlined sales management and analysis

Criminal Intent

Feb 2023

- Developed a **Kotlin**-based android application that utilized Android MLKit library to implement functions such as face detection, contour detection, mesh detection, and selfie segmentation. The detection could be turned off and on

Activity Detection

Mar 2023

- Worked on an **Kotlin**-based android application that detects user activities like walking, running, in vehicle, still. The application shows the map with user's current location
- Utilized geo-fencing to notify user when they are on WPI campus. App starts playing music when the user is walking or running

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C++, Java, Kotlin, 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