

Rajashree Pethkar

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Education

Masters in computer science | Portland State University | GPA: 3.78 | Jan 2022 – Jun 2023

Bachelor of Engineering in Information Technology | Shivaji University | GPA: 3.9 | Aug 2009 – May 2013

Skills

Programming languages: C#, Python, HTML, CSS, jQuery, JavaScript, TypeScript, React, AngularJS

Technologies/Frameworks: Asp.net, MVC, Web API, Entity framework, Bootstrap, Docker, Kubernetes

Databases: SQL server, PostgreSQL, SQLite

Cloud: AWS, GCP, Azure

Developer Tools: Visual Studio, VS Code, PyCharm

Version-Control Build Tools: Azure DevOps, Git, TFS

Experience

Tata Communications

Senior Team Lead

Apr 2021 – Nov 2021

Pune, India

- Developed tools for Tata Communications MOVE IoT solution, aimed at resolving issues through automation of manual tasks.
- Successfully automated manual tasks, resulting in a significant increase in efficiency from **4 tasks a day to 1000 tasks a day**.
- Tools/Technologies: C#, .net, HTML, CSS, REST, MVC

Pethkar Systems LLP

Project Manager

Apr 2016 – Nov 2020

Pune, India

- Successfully **led and managed a team** throughout the entire lifecycle of the Zyvo web app, including its development, deployment, and maintenance.
- Integrated the Zap-Q personality survey for fast, efficient, and insightful analysis of employees' potential.
- Collaborated on the implementation of the 360° feedback assessment feature in Zyvo, ensuring anonymous evaluation of employees' competencies.
- Played a key role in the development of Zyvo Neuro-assessment games, employing gamified approaches to measure personality characteristics and cognitive abilities, delivering valuable insights for employees.
- Generated **crucial application metrics to analyze performance** and identify anomalies, contributing to the overall optimization of the system.
- Played a key role in creating **microservices** for the personality survey and neuroscience assessment, **improving performance and enabling efficient handling of heavy load tasks**.
- Analyzed and debugged bugs, ensuring smooth functionality and enhancing the overall user experience.
- Utilized the insights from the Zap-Q survey, 360 feedback survey, and neuro-assessment games to create reports, providing valuable information and actionable insights.
- Tools/Technologies: C#, .net, JavaScript, JQuery, AngularJS, HTML, CSS, SQL Server, Entity framework, LINQ, Kendo Telerik UI, Telerik reports, Azure, REST, MVC

Persistent Systems Ltd

Senior Software Engineer

Oct 2013 – Apr 2016

Pune, India

- Played a significant role in creating a dynamic web application for an Indian television show, specifically designed to filter and process social media response.
- Developed a travel gamification app, incorporating front-end and back-end technologies, and implemented reports using Telerik reporting tool.
- Tools/Technologies: C#, .net, WCF, JavaScript, JQuery, HTML, CSS, SQL Server, TFS

Projects

- [NFL Statistics and Betting Dashboard](#) | React, JavaScript, HTML, CSS, Bootstrap | Spring 2023 - Developed a front-end web app which can be used to help sports betting hobbyists base their bets on the statistics and odds that matter most to them.
- [Kmeans, Kmeans++ and Agglomerative clustering on Amazon food reviews](#) | Python | Spring 2023 – Implemented kmeans, kmeans++ and agglomerative clustering to create clusters of amazon food reviews dataset and generate Sum of Square Errors and Silhouette Coefficient.
- [Trimet](#) | HTTP, Python, Pandas, JSON, Kafka, PostgreSQL, GCP, Linux | Spring 2023 – Build a generalized data pipeline. The data loaded is supplied to create visualizations for any chosen geographic rectangle, route and timeframe.
- [PSU Food Carts Review](#) | React, TypeScript, JavaScript, Docker, TypeOrm, Git | Winter 2023 - Developed a comprehensive full stack application that enables users to add and review food carts located on campus.
- [Astronomy Pic Of the Day](#) | Python, Docker, GCP, AWS, NASA API, Google Vision API | Fall 2023 - Display the astronomy pic of the day using NASA API with Google vision API to get image analytics.
- [DeepMusic](#) | Python, Pygame, Tensorflow | Spring 2022 - Explored the training of Generative Adversarial Networks (GANs) and Long Short-Term Memory Networks (LSTMs) on diverse music corpora to generate music.
- [Synthehol: Music Synthesizer](#) | Python, SoundDevice, Mido | Spring 2022 - Designed and developed a music synthesizer that incorporates drunk-like effects through frequency modulation techniques.
- [Chess](#) | Python, Pygame | Winter 2022 - Developed a Python-based chess engine that incorporates a customized implementation of the minimax algorithm and alpha-beta pruning. Integrated selected heuristics to enhance its performance.