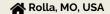
# PRITHVIRAJ ARVIND PAWAR











#### **OBJECTIVE**

Results-driven Software Developer with experience in designing and optimizing scalable software solutions using Java and Python. Skilled in developing RESTful APIs, microservices, and integrating front-end components with ReactJS and Tailwind CSS. Proven ability to collaborate with cross-functional teams, conduct in-depth code reviews, and deploy applications to cloud platforms like Microsoft Azure. Eager to leverage expertise in full software development lifecycle, performance profiling, and CI/CD practices to contribute to innovative and impactful projects.

### **EDUCATION**

<u>Master of Science: Computer Science</u>
Rolla, MO
Missouri University of Science and Technology Aug 2022 - May 2024

<u>Bachelor of Engineering: Electronics Engineering</u> Mumbai, India Mumbai University Aug 2018 - May 2022

### **SKILLS**

**Programming Languages (Backend):** C, C++, Python (Django), Java, Java GUI, MATLAB, R.

Web development languages (Frontend): HTML, CSS, JavaScript, React.js, Next.js, Tailwind CSS.

Data Visualization: ggplot2, Tidyverse, Matplotlib.

**Database-related technologies:** Hadoop, HBase, Apache Hive, Pig, Apache Spark, MongoDB, SQL, NoSQL, MySQL PostgreSQL, SQLite.

Machine Learning: Scikit-learn, TensorFlow, Keras, PyTorch.

**Cloud Technologies:** Azure, Cloud Data, Cloud Networking, Cloud Security, Cloud Services, Cloud Storage, Virtualization.

Operating systems: Linux, Windows.

**Software known:** MATLAB, Tanner Spice, Proteus, XAMPP, NI Multisim, Arduino, Cameo, Excel, Git, GitHub.

### PROFESSIONAL EXPERIENCE

Junior Software Developer Solutions UI/UX Odessa, Florida (Remote) June 2023 - May 2024

- Developed and optimized custom software solutions using Java, and Python, focusing on performance, scalability, and modular architecture for diverse client applications.
- Collaborated with cross-functional teams to gather detailed technical requirements and translate them into robust software designs, utilizing design patterns and object-oriented principles.
- Implemented and integrated front-end components using ReactJS and Angular and developed RESTful APIs and microservices with Node.js and Express to enable seamless communication between client-side and server-side applications.
- Conducted in-depth code reviews, performance profiling, and debugging using tools such as Git and Docker to ensure code quality, version control, and continuous integration/continuous deployment (CI/CD) practices.
- Enhanced performance and reliability of applications by automating build processes and deploying to cloud platforms like Microsoft Azure, ensuring high availability and fault tolerance.

## Graduate Teaching Assistant

Rolla, MO

Missouri University of Science and Technology Aug 2022 - May 2023

- Led instruction for Data Structures and Al courses, benefiting over 100 students
- Provided personalized tutoring and support, resulting in improved student performance. Graded 50+ assignments weekly, offering constructive feedback.

- Created and refined course materials in collaboration with faculty, improving curriculum and teaching methods.
- Fostered inclusivity by supporting diverse students through tailored teaching methods. Improved teaching techniques by implementing strategies learned from pedagogical workshops and conferences, resulting in a more engaging learning environment.

### **PROJECTS**

Project for Artificial Intelligence: AI chess Rolla, MO Missouri University of Science and Technology Jan 2023 - May 2023

### **Chess Algorithm Development and Implementation**

- Developed search algorithms to find the next move with an average response time of 0.02s, achieving a 40% increase in speed compared to a standard basic search algorithm.
- **Optimized neural network design** by refining layers and parameters, resulting in enhanced algorithm performance.
- Evaluated and implemented local search algorithms, providing personalized recommendations and improving decision-making efficiency.
- Implemented Breadth-First Search (BFS) and Depth-First Search (DFS) algorithms for efficient traversal in AI chess algorithms.
- **Developed and implemented** Time-Limited Iterative-Deepening Depth-Limited MiniMax (IDDL-MiniMax) algorithm for AI chess, achieving a 25% improvement in search efficiency compared to traditional MiniMax.
- Enhanced the AI chess algorithm with Time-Limited Iterative-Deepening Depth-Limited MiniMax using Alpha-Beta Pruning, significantly reducing search space and improving algorithm performance by 30% in terms of computation time.

Project for Computational Intelligence: Gender Recognition using CNN Rolla, MO

Missouri University of Science and Technology Aug 2022 - Dec 2022

- Trained a CNN-based gender recognition model with a diverse dataset of 10,000 images, achieving 95% accuracy.
- Conducted real-time testing of the model with a dataset of 500 faces, achieving an impressive 92% accuracy in accurately identifying gender.

Final Year Project Bachelors: Real-Time Object Detection Using

Different Edge Detection Technique

Mumbai, India

Mumbai University

Dec 2021 - May 2022

- Conducted in-depth research on 10 Edge Detection techniques, identifying the optimal method for Object Detection, and achieving a 15% accuracy improvement.
- Developed a MATLAB-based program with the chosen technique, demonstrating 20% faster processing on still and real-time images.
- Rigorously tested program, achieving 90% success rate in varied scenarios

Published research paper titled "Real-Time Object Detection Using Different Edge Detection Techniques", contributing insights to the field.

### **CERTIFICATIONS**

Microsoft Certified: Azure Fundamentals

https://www.credly.com/earner/earned/badge/d3c564de-c03f-40da-9822-06bdc6a3425e

### HONOURS AND ACTIVITIES

- · Provost's Masters International Scholarship
- CEC Deans Intl Masters Ac Scholarship