

PRITHVIRAJ ARVIND PAWAR

🏠 Rolla, MO, USA

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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 Angular. 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

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

Bachelor of Engineering: Electronics Engineering 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.

Data Visualization: ggplot2, Tidyverse, Matplotlib.

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

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.

PROFESSIONAL EXPERIENCE

Junior Software Developer Odessa, Florida (Remote)
Solutions UI/UX 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 AI 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**