

PRAVEENDHRA RAJKUMAR

+18573914257 | p.rajkumar001@umb.edu | linkedin.com/in/praveendhra/
prvn9021.github.io/Portfolio/

SUMMARY

I am a dedicated Computer Science professional with a Master's from the University of Massachusetts - Boston and a Bachelor's from Anna University. Skilled in diverse technologies, from Python and Java to AWS and Docker, I excel in software engineering and project management. With a track record of optimizing systems, developing innovative solutions, and a passion for technological innovation, I am poised to contribute effectively in dynamic tech environments.

EDUCATION

University of Massachusetts - Boston

Master's, Computer Science

August 2022 - May 2024

GPA: 3.25

Anna University

Bachelor's, Computer Science

July 2016 - May 2020

GPA: 3.14

PROFESSIONAL EXPERIENCE

University of Massachusetts - Boston

Teaching Assistant

Boston, MA, USA

August 2022 - Present

- Collaborate on course materials and lecture slides, utilizing Microsoft PowerPoint and relevant tools.
- Facilitate weekly discussion sections for 80 students, guiding problem-solving exercises.
- Provide comprehensive feedback on Arduino assignments and personal projects, ensuring fair grading.
- Offer one-on-one support during office hours and maintain effective communication with students.
- Engage with students in interactive group discussions, fostering a collaborative learning environment that promotes active participation and knowledge sharing.

Zoho Corporation

Member Technical Staff

Chennai, Tamil Nadu, India

December 2019 - August 2022

- Analyzed NGINX and improved the reverse proxy module using headers. Achieved 30% traffic boost and improved user experience with APIGateway optimization.
- Designed and built an 'Inventory Comparison Service' to identify and reconcile configuration mismatches between Main and Disaster Recovery sites.
- Automated and streamlined the Switching service between Main and Disaster Recovery sites, minimizing manual intervention and downtime by 90%.
- Implemented Zoho's Data Center Management ops in AWS following a client request for private deployment to address privacy concerns, ensuring a secure and compliant environment for sensitive data.
- Developed an efficient API Documentation service, reducing technical issue resolution time by 20%.
- Performed regular assessments using CVE and OWASP to identify and address vulnerabilities, while enforcing robust security controls and protocols to safeguard confidential data and fortifying critical system access against unauthorized breaches.

Zoho Corporation

Summer Intern

Chennai, Tamil Nadu, India

May 2019 - June 2019

- Developed a web application to capture and retrieve data from a database, enhancing data management efficiency.
- Actively participated in daily standup meetings, contributing insights and collaborating with the team to drive project progress.
- Gained exposure to real-world software development practices and enhanced collaboration and communication skills.

PROJECTS & OUTSIDE EXPERIENCE

An Intelligent System to Effectively Predict Heart Disease | Curriculum Project

Anna University

Developer & Presenter

- Developed an application using Python and Machine Learning Algorithm that predicts how prone a person is to get a heart disease with a list of 13 parameters such as age, sex, BP, Angio Type etc.
- Used algorithms such as Feature Extraction and Addition combined with Random Forest Classifier method to predict the results with an accuracy rate of 96%.
- The primary objective is to optimize diagnostic efficiency, saving both time and resources in the prediction process.

Corynack

Anna University

Developer & Presenter

- Developed a web application that evaluates and monitors the capabilities of students in aptitude and technical aspects based on tests organized in the form of MCQs, QA and Programming tracks.
- The data collected aided in training the students using unique study methods which improved their technical skills.

Inventory Comparison Service

Zoho Corporation

Developer & Presenter

- The Inventory Comparison Service is an internal tool designed to ensure parity between the inventories of primary (Main) and disaster recovery (DR) sites. It conducts a comprehensive comparison of hardware components like RAM, HDD, and CPU Cores, along with specific configurations of processes.
- It standardizes systems, monitors for disparities, and alerts teams for quick rectification, ensuring synchronized performance across sites.

Autonomous Line-Following Battery Replacement Robot

World Robot Olympiad

Developer

- Autonomous Navigation: Using LEGO's NXT kit, a robot was developed to navigate a marked field with lines and blocks, identifying depleted batteries among them.
- Replacement Task: Upon detecting empty batteries, the robot autonomously retrieves charged replacements from a warehouse on the board, showcasing its ability to execute efficient battery swaps without human intervention.

SKILLS

Skills: HTML/CSS, Git, Java, Python, JavaScript, MySQL, Postgres, MongoDB, Nginx, Tomcat, Flask, Linux/Unix, Data Structures & Algorithms, Docker, jsp, Python, C programming, C/C++, HTML, Google Cloud Platform, AWS, Postman, Postgres, Apache, Flask, Docker, Windows, Arduino, RaspberryPi, IOT, Zigbee, NXT, Struts, Django, OOPS, Code Optimization, Code Refactoring, Agile, CI/CD Pipelines, Development Operations (DevOps), AI, MedTech, Bootstrap, Computer Networking, ML, Cryptography, REST APIs, Figma, gRPC, jQuery, JUnit, Kubernetes, Lua, Node.js, NoSQL, OpenCV, Oracle, PHP, Product Management, Redis, Selenium, SQL, TCP/IP, TypeScript, Web Development, WebLogic, Webflow, Word/Pages/Docs, Wireshark, Mentor, Excel/Numbers/Sheets, Jupyter, Operating Systems, Cloud, Bash, Shell Scripting, Robotics

Languages: Tamil