PRAVEENDHRA RAJKUMAR

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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   **August 2022 - May 2024**
Master's, Computer Science   *GPA: 3.25*

Anna University   **July 2016 - May 2020**
Bachelor's, Computer Science   *GPA: 3.14*

PROFESSIONAL EXPERIENCE

University of Massachusetts - Boston   **Boston, MA, USA**
Teaching Assistant   *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   **Chennai, Tamil Nadu, India**
Member Technical Staff   *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.
- Enhanced APIGateway performance through strategic network optimizations, including the implementation of content delivery networks (CDNs) to reduce latency and accelerate content delivery.
- 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%.

Zoho Corporation   **Chennai, Tamil Nadu, India**
Summer Intern   *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