PRAVEENDHRA RAJKUMAR

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EDUCATION

MS, Computer Science — May, 2024
University of Massachusetts, Boston — *CGPA - 3.33*

BE, Computer Science — May 2020
St. Joseph's College of Engineering, Chennai — *CGPA - 3.14*

EXPERIENCE

Teaching Assistant - Computer Architecture and Organization — Aug 2022 - May 2024
University of Massachusetts - Boston — *Boston, MA*

- Collaborate with students on course materials and lecture slides.
- Lead engaging Arduino lab sessions, offering thorough feedback on assignments, and ensuring fair grading.
- Offer one-on-one support for students during office hours and maintain effective communication with students.

Member Technical Staff - Disaster Recovery — Dec 2019 - Aug 2022
Zoho Corporation — *Chennai, TN*

- Achieved 30% traffic boost by improving NGINX's reverse proxy module using headers.
- Built an Inventory Comparison service to identify configuration mismatches between Main and Disaster Recovery sites, ensuring timely resolution of discrepancies.
- Minimized manual intervention and downtime by 90% by automating the switching flow.
- Implemented Zoho's Data Center Management ops in AWS following a client request for private deployment.
- Developed an efficient API Documentation service, reducing technical issue resolution time by 20%.

Software Engineering Intern - Disaster Recovery — May 2019 - Jun 2019
Zoho Corporation — *Chennai, TN*

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

PROJECTS

An Intelligent System to Effectively Predict Heart Disease — Curriculum Project — SJCE
Developer & Presenter

- Created a Python-based application employing Machine Learning algorithms to determine an individual's susceptibility to heart disease.
- Utilized techniques including Feature Extraction and addition alongside the Random Forest Classifier method, resulting in a 96% accuracy rate.
- Improved diagnostic efficacy, resulting in time and resource savings during the prediction process.

Corynack - Assessment Tool — SJCE
Developer & Presenter

- Created a web-based platform to assess and track students' proficiency in both aptitude and technical domains.
- Utilized structured tests, including multiple-choice questions (MCQs) and programming tasks, to facilitate evaluation.
- Leveraged gathered data to implement tailored training methods, enhancing students' technical competencies.

Meeting App - Streamlined Church Management System — UMB
Developer & Presenter

- Created a user-friendly web application that helps churches easily manage meetings and assign tasks.
- Built features for user hierarchy management, user management, subscription modelling, and integrating payments to simplify church operations.
- Improved church administration by providing an all-in-one tool for managing activities and enhancing communication within the church.

Automatic Number Plate Recognition (ANPR) and Parking Slots Management for a Restaurant
Assistant Developer

- Proficient in crafting and deploying intelligent parking solutions, utilizing specialized knowledge in Automatic Number Plate Recognition (ANPR) technology.
- Designed and implemented an ANPR-driven Smart Parking System tailored for a restaurant, maximizing the efficient use of parking spaces.
- Augmented security measures by ensuring ANPR precision and seamless integration with entry/exit barriers.

SKILLS

Programming Languages	Java, Python, JS, C/C++, Lua, TypeScript
Web Development	HTML, CSS, React, Bootstrap, Flask, Django, Node.js, jQuery, MVC
Database	MySQL, Postgres, MongoDB, Oracle, Redis
Cloud	GCP, AWS, ZCP
Container	Docker, Kubernetes
Web Servers and Hosting	Nginx, Tomcat, Apache
Tools & platforms	Git, Mercurial, Postman, Figma, Jupyter, Wireshark
Frameworks	Flask, Struts, Django, Bootstrap, React
Operating Systems & Shell	Linux/Unix, Windows, Bash, Shell Scripting
IoT & Robotics	Arduino, RaspberryPi, IOT, Zigbee, NXT, Robotics
Testing & Quality Assurance	JUnit, Selenium