

# PRAVEENDHRA RAJKUMAR

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## SUMMARY

As a seasoned cloud engineer with 3 years of experience, I excel in disaster recovery and cloud console solutions. I specialize in optimizing systems and automating processes to ensure efficient operations and resilient infrastructure. My track record showcases a proven ability to deliver effective solutions that minimize downtime and maximize performance in cloud environments. Seeking for full-time roles.

## EDUCATION

**MS, Computer Science** Expected May, 2024  
University of Massachusetts, Boston *CGPA - 3.25*

**BE, Computer Science** Jul 2016 - May 2020  
St. Joseph's College of Engineering, Chennai *CGPA - 3.14*

## EXPERIENCE

**Teaching Assistant - Computer Architecture and Organization** Aug 2022 - Present  
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 - Assesment 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.

**Autonomous Line-Following Battery Replacement Robot** World Robot Olympiad  
Developer & Presenter

- Employed LEGO's NXT kit to construct an autonomous robot capable of traversing a designated area containing lines and obstacles.
- When identifying depleted batteries, the robot autonomously retrieves fully charged replacements from a designated warehouse.
- This demonstrates its proficiency in executing swift and automated battery exchanges without requiring human intervention.

**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

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