Kathar Patcha Abdul Rahim

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Summary Of Qualifications

- **Expertise in Software Development and QA**: Over 3 years of experience in Java, design patterns, Selenium, and various testing frameworks.
- **Advanced Academic Pursuits**: Currently pursuing a master's degree in applied computing (AI Stream) while holding a bachelor's degree in computer science and engineering, achieving a CGPA of 8.61.
- **Award-Winning Innovations**: Recognized for developing innovative applications enhancing time management and performance.

Technical Skills

- **Programming Languages**: Proficient in Java, C, C++, Python, SQL, JavaScript, HTML, CSS, Shell, Unix.
- **Web Development**: Skilled in Vue.js, React.js, and RESTful APIs.
- **Software Development**: Experienced with Socket Programming, data structures and design patterns.
- **Tools & Cloud**: AWS, VMWare, Eclipse, IntelliJ, JIRA, Jenkins, ALM, GIT, MS Office, Postman.
- **Testing Frameworks**: Proficient in Selenium, UFT, Cucumber, TestNG.

Education

Master of Applied Computing, Artificial Intelligence Stream Jan 2024 - Present
University of Windsor • Windsor, Ontario

- Final semester of program requires a 4- or 8-month internship would start in January 2025.

Bachelor of Engineering in Computer Science and Engineering Aug 2016 - Oct 2020
Panimalar Institute of Technology, Chennai | 86% • Chennai

- Completed a 4-year B.E. in Computer Science and Engineering from Anna University, graduating with First Class with Distinction.

Work Experience

Associate Software Engineer (SDET) | Genesys • India May 2022 - Dec 2023
Technology: Java, Data Structures, Design Patterns, Selenium, TestNG, Node Js, Vue JS, HTML, CSS, Jenkins, JIRA.

- **Constructed automated tests:** Developed over 150 automated test scenarios across more than 50 epics or features, enhancing API, UI, and End-to-End testing processes and improving feature deployment speed by 30%.
- **Focused on Speech-to-Text functionality:** Specialized in testing and optimizing transcript component of Speech-To-Text feature, ensuring accuracy and stability across deployments.
- **Streamlined processes:** formulated and implemented internal web applications reduced testing overhead by 20%, optimizing team workflows and increasing efficiency.

Associate Software Engineer | Accenture • India Jan 2021 - May 2022
Technology: Java, POM, Selenium, TestNG, Cucumber, Sonar, Jenkins, JIRA.

- **Automated testing processes:** Automated over 200 test cases using Selenium with Java, leading to a 40% increase in test coverage and a 15% reduction in testing time.
- **Improved application quality:** Identified and resolved 50+ critical issues during system and integration testing, diminishing post-release defects by 20%.

- **Awarded for excellence:** Ranked in top 10 among testers, earning a place on the Wall of Fame for outstanding performance and dedication.

Projects

Created a file backup system using socket programming May 2024 - Aug 2024
University of Windsor • Windsor, Ontario

- **File Backup System:** designed a file backup system using C in Linux environment with socket programming. built 3 servers to handle different types of files and actions.
- **Effortless file retrieval:** Engineered archive file download and listing all files for effortless access.

Deep learning-based driver distraction detection May 2024 - Aug 2024
University of Windsor • Windsor, Ontario

- **Constructed Deep Learning Model:** Constructed a CNN-based driver distraction detection system recognizing ten different driving activities.
- Achieved High Accuracy: Attained a test accuracy of 99.24% using an ensemble of DenseNet121 and custom CNN architecture (DARNET).
- **Enhanced Detection Performance:** Optimized pre-trained models and custom CNN architectures, improving classification accuracy and robustness for real-time distracted driving detection**.**

Human vs LLM - Text Detection Jan 2024 - Apr 2024
University of Windsor • Windsor, Ontario

- **Constructed AI Model**: formulated a model to detect AI-generated text, achieving 86% accuracy.
- **Refined Classification Models**: Enhanced binary and multi-class classification models to meet precision targets.

Web-Based Work Life Simulation Jan 2024 - Apr 2024
University of Windsor • Windsor, Ontario

- **Built Educational Application**: Developed a web application simulating work environment for students.
- **Partnered with Companies**: Facilitated live training and task completion to aid student job readiness.

Journals

Enhanced Prototype for Security and Health Using IoT Jan 2020 - May 2020
Panimalar Institute of Technology • Chennai, India

- **Developed Health Monitoring Device**: Designed a wristwatch prototype to monitor health and report emergencies.
- **Utilized IoT Technologies**: Integrated GPS, pulse meter, and temperature sensor for continuous health monitoring.
- Published in international journal of Research in Engineering, Science and Management as **"Enhanced Device for Security and Health Purpose Using IOT"** with Volume-3, Issue-5, May-2020, ISSN: 2581-5792.

Achievements

Best Commercial Feasible Idea | Genesys.
May 2022 - Dec 2023.

- **Sustainability Initiatives**: devised a prototype to reduce carbon footprints, winning recognition for innovation.

Application Development | Genesys.
May 2022 - Dec 2023.

- **Chrome Extension**: Created a tool to streamline navigation within the Genesys cloud.
- **Web Application:** Built a platform to simplify creation of applications, reducing setup time.