

POOJA REDDY ARAVA

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ABOUT

I am a passionate Software Developer skilled in Java, Python, React, SQL, and REST APIs, with experience in building scalable applications and system integrations. I bring a strong foundation in software engineering principles, cloud tools, and collaborative development to deliver robust, user-focused solutions.

PROFESSIONAL EXPERIENCE

Accenture Solutions Private Limited, Application Development Associate **Oct 2022 - Jun 2023 | Bangalore, INDIA**

- Designed, developed, and implemented 3+ enterprise-level technology projects focusing on MuleSoft integration, improving data flow efficiency by 40% and reducing API response time by 25%.
- Proficient in MuleSoft Platform including Anypoint Studio, Design Center, Exchange, API Manager, Runtime Manager, and Anypoint Monitoring.
- Developed responsive front-end interfaces using React.js to visualize API data, improving user experience and enabling real-time data monitoring for enterprise integrations.
- Developed reusable APIs and connectors using RAML & Anypoint Studio to optimize system functionality.
- Collaborated with business analysts to gather integration requirements and translate them into technical specifications, enabling 5+ API integrations that boosted system efficiency by 30% and reduced manual data processing by 40%.
- Supported testing and quality assurance processes, conducting unit testing, integration testing, debugging, and automation testing for seamless functionality.
- Assisted in technical documentation, system architecture, and software deployment to ensure streamlined software development.

Cleveland State University, Teaching Assistant

Feb 2024 – May 2025 | Cleveland, USA

- Assisted in Teaching CIS 636: Software Quality Assurance, CIS 530: Database Systems, CIS 534: Software Engineering, CIS 524: Comparative Programming Languages & CIS 340: System Programming.
- Supported students through grading, assignment guidance, Lab sessions and one-on-one tutoring.
- Collaborated with Professors Dr. Aditi Singh and Dr. Yongjian Fu to enhance course delivery and improve student understanding
- Developed hands-on expertise in Manual/System testing, C programming, Haskell, software design principles.

STUDENT PROJECTS

- Course project proposal on Prediction of Cardiovascular Disease Risk** **Aug 2024 – Dec 2024**
Developed predictive models using Logistic Regression, Decision Trees, Random Forest, and SVM to assess cardiovascular disease risk. Conducted feature importance analysis and performed hyperparameter tuning to improve model accuracy by 12%. Achieved an 89% accuracy in disease risk prediction using real-world medical datasets from Kaggle.
- Travel Management System - Software Testing.** **Jan 2024 – May 2024**
Automated tests using Selenium and managed test scripts with Git. Conducted functional and integration testing, enhancing product reliability.
- Determining an Optimum Machine Learning Architecture for Human-Activity Recognition** **Jan 2022 – Jun 2022**
Built and compared KNN, SVM, RFC, ANN, and LSTM models for human activity recognition using wearable sensor data. Applied feature engineering techniques, leading to an accuracy improvement of 15%. Utilized cross-validation and hyperparameter tuning to refine model performance and reduce bias.

SKILLS, TOOLS & TECHNOLOGIES

- Languages & Frameworks:** C, C++, Java, Python, JavaScript, TypeScript, HTML, CSS, JSON, XML, .NET, SQL, Django
- Web & Tools/Technologies:** ReactJS, Tailwind CSS, Bootstrap, SCSS, MySQL, REST APIs, Git, GitLab CI/CD, Jenkins, Azure DevOps, MuleSoft (Anypoint Platform, Mule ESB, Cloudhub), AWS, Docker, Selenium, Postman, Tableau, Power BI, Jupyter, MS Office

PUBLICATIONS & CERTIFICATIONS

- Large Language Models in Wearable Devices: Applications, Challenges, and Future Directions**, IEEE Publisher Proceedings of the IEEE International Conference on Artificial Intelligence of Things (AIIoT 2025), Accepted, **Paper ID: 1571138501**, publication forthcoming (August 2025).
- Walmart USA – Advanced Software Engineering Job Simulation (Certified by Forage) Mar 2025
- Introduction to Networking (certified by Networking Academy) Jul 2021
- Introduction to CyberSecurity (certified by Networking Academy) Oct 2020
- Machine Learning (Certified by Internshala) May 2020

EDUCATION

CLEVELAND STATE UNIVERSITY

Cleveland, OH

Master's in computer science (GPA – 3.65)

BTech Computer Science, JNTU Anantapur

Andhra Pradesh, India

Bachelor of Engineering – Computer Science (CGPA – 7.99)