



Madhu Chandrika Balram

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EDUCATION

DePaul University Master's in Computer Science	Chicago, USA Expected - Aug 2026
REVA University Bachelor of Technology in Electronics and Communication 3.7 GPA	Bangalore, India Jun 2022

PROFESSIONAL EXPERIENCE

Custom Software Engineering Associate <i>Accenture (Technologies: Heroku, Java, Heroku Postgres, Papertrail)</i>	Dec 2022 – Jul 2024 Bangalore, India
<ul style="list-style-type: none">Developed and optimized Java-based applications on Heroku, enhancing deployment and database management.Designed and managed RESTful APIs to support seamless client-server communication.Proactively monitored application logs using Papertrail, resolving performance bottlenecks to improve reliability.Collaborated with cross-functional teams to troubleshoot software and database issues, implementing efficient solutions.Conducted system performance reviews to improve software efficiency and reduce downtime.	
Programmer Analyst Trainee Intern <i>Cognizant (Technologies: Java, Selenium WebDriver, MySQL, Maven)</i>	Feb 2022 – Jun 2022 Bangalore, India
<ul style="list-style-type: none">Developed automated test scripts using Selenium WebDriver and Java for Oracle PeopleSoft, improving testing efficiency and accuracy.Integrated MySQL with the testing framework, optimizing data management for automated tests and enhancing the overall workflow.Collaborated with team members to enhance the automation testing process, reducing reliance on manual testing and improving overall test reliability.	

PROJECTS

Personal Portfolio Website <i>Technologies: HTML, CSS, JavaScript, GitHub</i>	Feb 2025
<ul style="list-style-type: none">Designed and developed a personal portfolio website to showcase projects, technical skills, and professional experience.Implemented smooth navigation, animations, and well-structured content sections for an intuitive user experience.Deployed the portfolio on GitHub Pages, ensuring easy accessibility and streamlined version control.	
E-Commerce Product Store (Full Stack Development) <i>Technologies: React.js, Node.js, MongoDB, HTML, CSS, JavaScript, Gi, Express.js, Render, RESTful API</i>	Feb 2025
<ul style="list-style-type: none">Developed a full-stack product store enabling users to browse, add, update, and delete products.Built a dynamic React.js frontend with React Router for seamless navigation and Axios for efficient API communication.Designed a RESTful API using Express.js & MongoDB, implementing secure CRUD operations for product management.Deployed the backend on Render, managing API requests and database operations efficiently.	
Real Time Health Monitoring System Using IOT <i>Technologies: Arduino IDE, Embedded Systems, Data Visualization Tools- MATLAB, ThingSpeak</i>	May 2022
<ul style="list-style-type: none">Developed an IoT-based robotic system using Arduino MEGA for automated medication dispensing and real-time vital sign monitoringIntegrated ThingSpeak and MATLAB for real-time data transmission and graphical analysis, enhancing automated healthcare tracking for improved patient monitoring.	
TECHNICAL SKILLS	
<p>Programming Language — C/C++, Java, Python, JavaScript, HTML, CSS Frameworks & Technologies — React.js, Node.js, Database Technologies — MongoDB, MySQL, Heroku Postgres, DBMS Cloud & DevOps Tools — Docker, Heroku, Render Version Control — Git, GitHub Testing & Automation — Selenium WebDriver Log Management Tools — Papertrail, Logtail Optimization — Data structures, algorithms, object-oriented programming, Distributed systems</p>	

CERTIFICATE

Salesforce- Salesforce Certified Administrator	Mar-26-2024
Microsoft- Introduction to Programming Using Python	Sep-01-2020
Udemy- The Complete Full-Stack Web development Bootcamp	Feb-05-2025