


# MANIKANDAN R

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## Experience and Projects

### Full Stack Engineer

### Smarter.codes

05/2023-Current

#### RPA automation

- Generated an annual revenue increase of \$24,000 by leading the design and development of enterprise-level microservice applications in RPA automation. This achievement was propelled by leveraging automation technologies such as Python, JavaScript, and Power Automate.
- Managed millions of daily license requests by implementing scalable APIs and deploying Azure cloud solutions for proprietary licenses.
- Improved customer productivity by 80% and overall efficiency by 30% through the establishment of a robust
- Continuous Integration/Deployment pipeline. This included elements like pull requests, code reviews, load/stress testing, as well as comprehensive unit, integration, and end-to-end testing.

#### Critical System Development Middleware

- Achieved 99.9% uptime and saved in valued applications by creating a high-throughput, low-latency comprehensive management of servers with FastAPI.
- Collaborated with cross-functional teams to integrate GraphQL with existing RESTful APIs, improving data retrieval and user experience. Developed a Python-based middleware for authorized certification, deployable on AWS, GCP, and Azure, fortified with robust security measures and e2e automation testing.

#### Chatbot Projects

- Designed fintech applications that generated \$60,000 in annual revenue. This was accomplished using a combination of Botpress, Python, React, MongoDB, and GCP. Improved American real estate analysis by 75%.
- Orchestrated a comprehensive automation of the user experience testing process for the marketing platform, seamlessly integrating Nightwatch and Selenium. This strategic endeavor supported by technologies such as Redshift, S3 for data-driven insights, resulted in a notable 28% increase in global revenue during the first quarter.

#### Frontend Development Projects

- Executed projects totaling \$12,000, emphasizing the ability to deliver high-quality work within budgetary constraints. Proficiency in frontend development was demonstrated by leveraging HTML, CSS, JavaScript, and React (JSX, TSX) to achieve pixel-perfect accuracy and create reusable, modular components. These components were seamlessly integrated with backend systems, resulting in an impressive 83% improvement in UI efficiency.

#### Facial Recognition and Authentication Mobile Application

- Boosted facial recognition accuracy by 94% with the development of a cutting-edge application compatible with Android and iOS for widespread accessibility.
- Implemented CI/CD integration using agile and scrum methodologies. This was achieved by leveraging Python, TensorFlow, Flutter, Dart, C# and vector storage. The technology garnered attention for its enterprise-level potential, showcasing adaptability and future-proofing.

#### Java-Based E-commerce Platform: Creating a Dynamic Online Shopping Experience

- Designed and developed a \$6000 e-commerce website, utilizing Java for backend development, Docker for containerization, and deployed on Google Cloud Platform (GCP). Incorporated secure user authentication with JSON Web Tokens (JWT), while leveraging GCP services like Cloud SQL and Cloud Build for efficient database management and automated deployment. This project demonstrates proficiency in both e-commerce website development and modern cloud-based deployment strategies.

## Education

Dhanalakshmi College of Engineering affiliated with Anna University

- **B.E in Computer Science and Engineering**

CGPA : 8.97/10

Sri Kalaivani English Medium School

- **Higher Secondary School:** Percentage : 89.33
- **Secondary School:** Percentage : 95.2

## CERTIFICATION

- Python Fundamentals - GREAT LEARNING
- Data Analysis with Python - COGNITIVE CLASS  
[Provided by IBM]
- Coding Ninja - codekaze [80/80]
- Master class on python -Pantech e Learning
- JavaScript Algorithm and Data Structures 300 hours of practicing Developer Certification
- Advanced Software Engineering Job Simulation offered by Walmart Global Tech through the Forage platform.
- Solutions Architecture Job Simulation offered by AWS through the Forage platform.
- Digital marketing workshop at Dhanalakshmi College of Engineering

## Scholarships

- Received merit-based scholarship from Dhanalakshmi College of Engineering affiliated by Anna University in recognition of outstanding academic achievements.

## Paper published in IJAR SCT

- Streamlining Resource on Boarding Business Processes through Leveraging Task Automation.

## Hackathon

- I participated in an internal Smart India Hackathon, developing an application that provides personalized scholarship recommendations based on user-provided information.

## Leadership and Team management Roles

- Professional service director in Rotaract club(2022-2023)
- Associate club service member in Rotaract club(2021-2022)
- Orchestrated and led 42 club, community, and professional initiatives during college.

## Technical Skills

- **Operating Systems:** Windows, Linux (Ubuntu, Debian, Kali), Unix, WSL
- **Advanced Programming Proficiency:** Python, Dart, Java, C, C++,C++17, C#, .NET, XAML, WinRT
- **Data Analysis Mastery:** Pytho, Tableau
- **Machine Learning and AI Frameworks:** TensorFlow, Keras
- **Mobile App Development Prowess:** Android Studio(JAVA, XML), Flutter(Dart)
- **Windows UI Development:** WinUI 2, WinUI 3, UWP
- **Chatbot Creation:** Botpress, Dialogflow, IBM Watson Assistant
- **Web Development:** Wix, WordPress, HTML, CSS, JS, Bootstrap, PHP, React (JSX, TSX), Node.js, REST API, GraphQL
- **Toolbelt for Development:**PyCharm, IntelliJ IDEA, Eclipse, Android Studio, Flutter ,Visual Studio Code ,Git, GitHub, Gitlab, Google Colab Notebook, Jupyter, JIRA, Bitbucket, Docker, Blend
- **Designing Excellence:** Adobe Photoshop, Adobe Premiere Pro, Adobe Illustrator, Adobe After Effects, Figma
- **RPA Proficiency:** UiPath, Power Automate, Automation Anywhere
- **Methodologies and Processes Proficiency:** SDLC (Software Development Life Cycle), Agile Methodology
- **Data Structure and Algorithm:**Python, Java, C
- **Extension Development:** Chrome extension developer
- **Database Management Systems (DBMS):** SQL, MYSQL, MongoDB, GraphQL, JDBC
- **Testing and Quality Assurance:**Pytest, Selenium, Cypress, JUnit
- **Github Links**
  1. <https://github.com/iam-mani>
  2. <https://github.com/R-Manikandan04>