Gomathi **Thangavel**

PYTHON DEVELOPER · SOFTWARE ENGINEER

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Education

Sona College of Technology, Anna University *Salem, Tamil Nadu*

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE - CGPA : 8.33 *July 2013 - July 2017*

- Final Project: "Identity-based Healthcare System" - Developed healthcare model with unique identity parameters for national security improvement
- Integrated Aadhaar card system with government incentive programs using MySQL database and Java platform
- Implemented logical operations through sequential implementation methodology

National Institute of Technology, Trichy *Trichy, Tamil Nadu*

MASTER OF TECHNOLOGY IN COMPUTER SCIENCE - CGPA : 7.90 *August 2020 - May 2022*

- Thesis: "Enhancing Authentication Protocol in Mobile Cloud Computing (MCC)"
- Developed dual-factor authentication model with biometric security for mobile cloud computing
- Addressed mobile device resource limitations and energy conservation through optimized algorithms
- Ensured secure verification even in case of mobile device loss or compromise

Technical Skills

Programming Languages	Python, JavaScript, PHP, Java, C++, HTML, CSS
Frameworks & Libraries	React.js, Angular, Express, Node.js, Playwright, Selenium, Material-UI, Redux
Testing & Automation	Playwright, Selenium, Manual Testing, Test Automation Frameworks, API Testing
Databases	MySQL, MongoDB, PostgreSQL, SQL Server
DevOps & Tools	Git, GitLab, Visual Studio Code, MCP (Model Context Protocol)
Cloud & Security	Mobile Cloud Computing, Authentication Protocols, Biometric Security

Experience

Zenoti *Hyderabad, India*

SOFTWARE ENGINEER *July 2022 - Present*

- Developed and maintained web applications using Python, C++, HTML, CSS, JavaScript, and PHP
- Implemented feature for part-time employee wage management system with direct payment processing
- Improved website performance and speed by 55% through optimization techniques
- Designed and developed a comprehensive Graphical User Interface tool for the QA automation testing team to make more efficient test result analysis and reporting
- Developed Playwright-based asynchronous test automation framework, transitioning from Selenium
- Saved significant computational resources in QA automation testing through framework optimization
- Built cutting-edge MCP (Model Context Protocol) tools to seamlessly integrate Large Language Models with product systems and SQL Server databases
- Automated high-level tasks for quicker development cycles and improved productivity
- Collaborated with cross-functional teams to deliver high-quality software solutions

Zenoti *Hyderabad, India*

SOFTWARE ENGINEER INTERN *February 2022 - June 2022*

- Worked with MVC frameworks to develop robust and scalable backends
- Performed intensive manual testing and automation testing for critical web applications
- Developed test scripts for various use cases including payment processing systems
- Troubleshot and fixed bugs in backend systems to ensure smooth operation
- Gained hands-on experience with Python-based testing frameworks and tools