

# Gomathi Thangavel

PYTHON DEVELOPER · SOFTWARE ENGINEER

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## Education

### Sona College of Technology, Anna University

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE - CGPA : 8.33

Salem, Tamil Nadu

July 2013 - July 2017

### National Institute of Technology, Trichy

MASTER OF TECHNOLOGY IN COMPUTER SCIENCE - CGPA : 7.90

Trichy, Tamil Nadu

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

## 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

SOFTWARE ENGINEER

Hyderabad, India

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
- Developed Playwright-based asynchronous test automation framework, transitioning from Selenium
- Saved significant computational resources in QA automation testing through framework optimization
- Built MCP (Model Context Protocol) tools to integrate LLM with product and major 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

SOFTWARE ENGINEER INTERN

Hyderabad, India

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
- Troubleshoot and fixed bugs in backend systems to ensure smooth operation
- Gained hands-on experience with Python-based testing frameworks and tools

## Projects

### Master's Thesis Project

ENHANCING AUTHENTICATION PROTOCOL IN MOBILE CLOUD COMPUTING

NIT Trichy

May 2021 - May 2022

- Developed authentication model addressing mobile device resource limitations and energy conservation
- Implemented dual-factor protocol with biometric security layer for enhanced security
- Ensured secure verification even in case of mobile device loss or compromise
- Optimized algorithms to reduce processing time while maintaining security standards

## **Bachelor's 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
- Implemented using MySQL database and Java platform (NetBeans IDE)
- Achieved logical operations through sequential implementation methodology

*Sona College of Technology*

*September 2016 - March 2017*