

# Thomas McNamee

Software Engineer | Full Stack Development



Dearborn, MI



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tcmtech98.com

## Skills

### Programming & Markup Languages

Python	Java	C++	JavaScript
C	C#	PHP	TypeScript
R	SQL	HTML	CSS
JSON	XML		

### Web Development & APIs

REST APIS	Node.js	Express.js	React.js
Spring	Flask	jQuery	SQLite
MySQL	NoSQL	Apache	NGINX
SSL	WebSockets		

### Networking & Security

TCP/IP	DNS	DHCP	HTTP/HTTPS
Firewalls	VPNs/Proxies		

### Data Tools & Visualization

Pandas	Excel	Plotly	Seaborn
Matplotlib	SciPy	NumPy	

### Servers & DevOps

AWS	Linux	Docker/Podman	Git/GitHub
Jenkins	Agile	Scrum	TDD

## Education

### University of Michigan

Dearborn, MI

### BS Computer and Information Science

#### Minor in History

2017-2024

## Certificates

CompTIA A+

## Experience

### Freelance Software Development

Independent Contracting

2014 – Present

- Built and deployed a multiplayer game server using Java, hosted on a VPS, with integrated account registration and secure DNS access.
- Completed client-defined projects by designing, developing, and publishing customized software solutions.

### Voice of the Customer Fleet (VoCF) Driver/Special Projects

Roush – Performance Driven Workforce

Allen Park, MI

April 2024 – Present

- Conducted special testing on 350+ pre-production vehicles to identify issues related to known defects.
- Documented bugs and technical anomalies during test routes using Vehicle Data Recorder (VDR) and Bug Reporter; submitted findings to Tier 1 automotive manufacturer for prototype development.

### Project Manager

Total Analysis USA

May 2024 – April 2025

- Led a team of four in collaboration with the CEO to develop a **Python**-based pathogen detection system using ion mobility data.
- Reverse-engineered **R** scripts to develop software to identify pathogen spectra and implemented a **MySQL** database to cross-reference against, achieving 95% identification accuracy.

### Computer Technician/Help Desk Technician

Troy School District

Troy, MI

August 2023 – December 2023

- Resolved technical support issues for staff, students, and parents involving hardware, software, networking, and printing.
- Maintained and updated the district-wide Help Desk database for device tracking and user management.
- Utilized MDM software to manage lost/stolen devices, deploy software remotely, and run administrative scripts.
- Performed device repairs and reimaging using tools such as Apple Configurator, Disk Utility, Windows Recovery, and USB/ISO solutions.

## Projects

- tcmtech98.com Self-Hosting** – Developed and self-hosted a personal website utilizing **HTML**, **CSS**, **JavaScript**, and **PHP** on a **RHEL**-based home server. Configured **NGINX** with **SSL** for secure **HTTPS** access and integrated a **Python** backend to manage web services, automate updates, and ensure continuous uptime.
- MySQL Database Connector** – Developed a command-line interface (CLI) application using **Python** and **Java** to establish connectivity with a **MySQL** database, enabling users to send queries and retrieve results efficiently.
- TCTV** – Self-hosted a media streaming platform using a containerized Jellyfin image, featuring a library of shows, movies, and live IPTV channels.