# Joel Mathew Thomas

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## Career Objective

B.Tech graduate in Computer Science and Engineering with practical experience in Python development, web technologies (HTML, CSS, JavaScript), and database management (MySQL). Passionate about building innovative web applications. Demonstrated ability to collaborate effectively and contribute meaningfully to projects. Seeking opportunities to apply technical skills within a dynamic team environment.

## Skills

- **Languages & Frameworks:** Python, Java, C, JavaScript, HTML5, CSS3, Node.js, Express.js, Django, WebSockets

- **DevOps & Infrastructure:** Docker, NGINX, QEMU/KVM, VirtualBox, VMWare, NGROK, AWS EC2

- **Databases & Tools:** MariaDB, MySQL, git

- **Operating Systems:** Linux, Windows

## Education

- **College of Engineering, Kidangoor**, B.Tech in Computer Science — 2021 - 2025
  GPA: 7.3/10
- **Mary Mount Public School, Kattachira**, Grade XII — 2020 - 2021
  Grade: 92 %

## Projects

- **FreqSplit**: Developed an evolving audio processing pipeline leveraging Python and PyTorch for advanced source separation, spectral gating refinement, and post-processing of raw audio files. Integrated with Django backend for API services, WebSocket for real-time communication, and React with TypeScript for a responsive frontend interface. Demonstrated modular design principles for scalability and extensibility.
- **SwiftMeds**: Built a dynamic online medical shop web application using Node.js and Express for backend services, with Socket.io enabling real-time doctor-patient consultations. Implemented secure user authentication, medication browsing, and account management using HTML, CSS, and JavaScript. The project highlights expertise in event-driven programming and responsive web design.
- **Self-Hosted Private Network & Web Services**: Deployed a Raspberry Pi server hosting multiple Docker containers for various web services. Configured NGINX as a reverse proxy for efficient routing and SSL termination. Set up Pi-hole for network-wide DNS ad blocking and custom local domains. Established a secure private mesh VPN using Tailscale to enable encrypted remote access and seamless device connectivity.

## Certifications

- Internship in Cybersecurity and Ethical Hacking — SkillVertex

## Languages

- English — Full Professional Proficiency
- Malayalam — Native or Bilingual Proficiency

## Interests

Linux, Back-end Development, Open Source, Continuous Learning, Web Development