

MATHEW PUNNEN CHANDY

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PROFESSIONAL SUMMARY

Software developer with hands-on backend experience and 5+ deployed full-stack, cloud, and AI/ML projects. Proficient in Next.js, React, Node.js, and deploying systems with Docker and AWS. Seeking a Software Development Engineer role to apply strong programming and system-design skills.

EDUCATION

Saintgits College of Engineering (Autonomous), Kottayam, Kerala <i>Integrated Master of Computer Applications (MCA) CGPA: 7.72</i>	2022 - 2027
MDSHSS, Kottayam, Kerala Class XII Percentage: 82.16%	2022
MDSHSS, Kottayam, Kerala Class X Percentage: 91.11%	2020

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, C, C++

Core Frameworks: Next.js, React, Node.js, Express.js, Flask, FastAPI

Frontend & Databases: HTML5, CSS3, Tailwind CSS, PostgreSQL, MySQL, MongoDB, Redis

AI / ML: scikit-learn, NumPy, pandas, OpenCV

Cloud & DevOps: AWS EC2, Docker, Jenkins, CI/CD pipelines

Tools & Practices: Git, GitHub, Linux, REST APIs, Prisma ORM, Flask-SocketIO, WebSocket, System Design

KEY PROJECTS

Samyuktha 10.0 - Event Management Platform Live Demo <i>Next.js 15 · Prisma ORM · Redux · Tailwind CSS · NextAuth · Razorpay · Node.js</i> - Architected a full-stack registration platform for a large-scale symposium, with NextAuth/Prisma authentication and Razorpay integration for online ticketing and fee collection. - Developed Role-Based Access Control (RBAC) letting admins access real-time dashboards and export registration data securely, with specialized permissions for event coordinators and personal-only views for standard users.	2026
CodeProctor - Coding Arena & AI Proctoring Platform <i>Next.js 16 · TypeScript · Neon Serverless PostgreSQL · Prisma v7 · Docker · BullMQ · Redis · Better Auth</i> - Engineered a monorepo microservices architecture (Next.js 16, Python computer vision service, Node.js worker) with a Docker and Redis backed BullMQ sandboxed judge for secure, asynchronous multi-language code evaluation (Python, C++, Java, Node.js) under strict time and memory limits. - Implemented AI-driven proctoring with a real-time Python computer vision pipeline detecting facial anomalies, gaze deviation, tab-switching and clipboard pasting, plus RBAC via Better Auth and Prisma for Owners, Moderators, and Participants.	2026
Samyuktha 9.0 - Event Management Platform <i>Next.js · TypeScript · Redux · MySQL · Node.js · Prisma ORM</i> - Engineered a full-stack event management platform serving 300+ participants during a college technical festival, handling registration, payments, and notifications. - Implemented JWT authentication and automated email notifications, plus an admin dashboard for managing users, events, and registrations.	2025
InfraSentinel - Real-Time Infrastructure Monitor GitHub <i>Python · FastAPI · Docker · Jenkins · AWS EC2 · CI/CD</i> - Built a real-time infrastructure monitoring system in Python/FastAPI tracking 4 key system metrics - CPU, memory, disk usage, and active processes - via a live dashboard. - Containerized the app with Docker and integrated Jenkins CI/CD pipelines with automated deployment and rollback for reliable, reproducible releases.	2026
ParkVision - Smart Computer Vision Parking System (24-Hour Hackathon) GitHub <i>Python · OpenCV · FastAPI · Flask-SocketIO</i> - Developed a smart parking availability system in Python using OpenCV to detect open slots via real-time computer vision. - Delivered live slot updates to a WebSocket-powered dashboard and designed a REST API for third-party integration with parking data.	2026

INTERNSHIP EXPERIENCE

Full Stack Development Intern Tisser Technologies, Kottayam, Kerala	Jun 2026 - Jul 2026
- Developed full-stack web applications using React, Node.js, Express.js, MySQL, and modern web technologies. - Designed relational database schemas and optimized queries; implemented RESTful APIs and backend business logic.	