

Athul Mathew Varughese

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OBJECTIVE

Backend Software Engineer with 3+ years of experience building scalable APIs using FastAPI, Django, and Python. Experienced in Microsoft Fabric, PySpark, ETL pipelines, Lakehouse architecture, Drupal, and Next.js. Passionate about distributed systems, cloud technologies, and building high-performance backend services.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript (ES6+), PHP, Pytest

Backend: FastAPI, Django, REST APIs, JWT Authentication, Async Programming

Data Engineering: Microsoft Fabric, PySpark, Data Factory, Delta Lake, Lakehouse Architecture, ETL Pipelines

Frontend & CMS: Next.js, React.js, Drupal, Shopify (Liquid), HTML5, CSS3

Databases: PostgreSQL, MySQL, MongoDB, Vector Databases

Tools & Platforms: Docker, Git, Linux, Power BI, Figma

PROJECTS

TalentHive - Placement Management Platform [↗](#)

- Engineered a full-stack web application for the placement cell using Next.js for a responsive frontend and Golang for the backend API. The platform streamlined information delivery and reduced the average response time to placements by 50%, significantly improving student engagement.

Hostel Mess Fee Management System [↗](#)

- Developed a Django-based web application to simplify monthly mess fee calculations for a hostel mess.
- Included dynamic features like attendance tracking, fixed/shared cost division, and automated monthly summaries.
- Deployed the application using PythonAnywhere for easy access and real-time usage by students and mess staff.

Ontology Exploration in Fabric IQ (Self-Study) | Microsoft Fabric, Python

- Explored the Ontology (preview) item in Microsoft Fabric IQ — modeling entity types, properties, and relationships and binding them to OneLake data — to serve as a shared context layer for an AI agent.

EXPERIENCE

• Associate Engineer @DBiz

July 2023 – Present

- * Built and optimized asynchronous FastAPI backend services, including a LangChain-based summarization tool, reducing average response time by 35%; implemented JWT-based authentication for secure API access.
- * Designed and implemented scalable ETL pipelines in Microsoft Fabric using Data Factory, Notebooks, and Lakehouse (medallion) architecture to automate bronze-to-silver data processing workflows across large-scale datasets.
- * Built and optimized data transformation workflows in Microsoft Fabric with PySpark and Delta tables, improving data quality, pipeline reliability, and processing performance for large-scale datasets.
- * Implemented custom Drupal modules and REST/JSON:API endpoints to fetch, classify, and render backend data for a decoupled Drupal + Next.js platform, improving content-management efficiency by 2x.
- * Debugged and enhanced performance of a legacy PHP site, improving load times by 50%.
- * Implemented sustainable, quality front-end components from wire frames using Next.js, integrating with scalable REST APIs to deliver impactful user experiences.

- * Contributed to building a decoupled web platform using Drupal and Next.js, focusing on modular, well-tested solutions for critical user flows like form handling and subscriptions.
 - * Built 10+ custom Drupal modules and REST endpoints supporting a decoupled Next.js frontend.
 - * Actively collaborated with Design and Product Management functions to translate user needs into technical solutions, improving UX and ensuring customer satisfaction.
 - * Implemented and customized Shopify storefronts (Liquid, JavaScript) for clients, including custom sections, product filtering, and third-party payment/analytics integrations (Stripe, PayPal, GA, GTM, Meta Pixel).
 - * Injected custom JavaScript utilizing modern APIs, including IntersectionObserver, to implement dynamic features and performance-focused animations on client e-commerce sites to improve page load/interaction performance by 20%.
- **SEO Intern @ IncrementumX** **Aug 2022 - Jan 2023**
 - * Executed on-page and off-page SEO strategies, increasing organic traffic by 30% and improving average keyword rankings by 10 positions within 60 days.

EDUCATION

B.Tech - Computer Science & Engineering

2019 – 2023

College Of Engineering, Chengannur **CGPA - 8.49**

Kerala, India

APJ Abdul Kalam Technical University

CERTIFICATIONS

- * C for Everyone: Programming Fundamentals - **UNIVERSITY OF CALIFORNIA, Coursera**
- * Python Basics - **UNIVERSITY OF MICHIGAN, Coursera**
- * Claude Code in Action -**Anthropic**