

Ayush Mishra

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PROFILE

A results-oriented Software Engineer with comprehensive expertise in the full software development lifecycle, specializing in the architecture, development, and integration of complex Drupal-based platforms and CiviCRM solutions. Proven ability in backend development, custom module creation, CRM customization, and delivering robust, scalable web applications. A detail-focused problem-solver committed to technical excellence and contributing to impactful open-source and client projects.

EXPERIENCE

Compuco

Drupal Engineer (L2)

Remote

Apr 2022 – Present

- Engineered and maintained a portfolio of **5+ concurrent Drupal projects**, many featuring complex **CiviCRM integrations** for membership, case management, and fundraising, ensuring robust technical alignment with client strategic goals.
- Served as a primary **technical architect and point of contact for Drupal and CiviCRM solutions**, translating complex client requirements into detailed technical specifications and leading development efforts for **teams of 3-5+ engineers**.
- Led the design and implementation of advanced Drupal solutions, including sophisticated CiviCRM integrations and secure platforms across 3+ major client projects, focusing on **data integrity, performance, and scalability**.
- Authored and enhanced technical documentation standards for Drupal and CiviCRM configurations and custom development, **leading to an estimated 15% reduction** in time spent by the team on clarifying incident/issue details.
- Ensured the delivery of high-quality code for complex Drupal implementations, custom modules, and CiviCRM configurations, achieving **zero critical post-launch QA issues** on key platform features.
- Proactively diagnosed and resolved complex technical challenges and blockers within Drupal and CiviCRM environments, contributing to **an estimated 10% reduction in potential project delays**.
- Managed the technical aspects of Drupal module deployments and CiviCRM update cycles, improving release efficiency and **achieving 20% fewer reopens** than average release cycles.

Opensense Labs

Software Developer

Remote

Oct 2020 - Mar 2022

- Led the development of a **complex multisite Drupal project**, architecting and implementing data integration solutions from a content vault using REST API connectors and performing CRUD operations.
- Contributed significantly to the Drupal open-source community** by identifying, troubleshooting, and providing patches for over **50 Drupal core issues**.
- Played a key role in establishing the company as a leading Drupal services provider, contributing to its achievement of a **top 3 global ranking** on the Drupal.org Marketplace.
- Mentored and guided 2 junior SDE interns in Drupal development **best practices and advanced module development techniques**, overseeing their project contributions and fostering their technical growth.
- Served as the lead technical developer on key client projects (e.g., Washington.org, Intake Education), successfully executing large-scale **Drupal 7 to Drupal 8 migrations** and platform redesigns for **high-traffic websites (over 1 million monthly visitors)**.
- Engineered backend Drupal solutions, including complex data automation processes (**cron jobs for 1500+ Drupal nodes**) and custom system optimizations like dynamic content ranking systems.

EDUCATION

Manipal University Jaipur

Bachelor of Computer Applications (8.5 CGPA)

Rajasthan, India

2017 – 2020

Chandigarh University

Master of Computer Applications (8 GPA)

Online

2021 – 2023

PROJECTS

- **CIWEM Membership Portal:** Architected and developed the CIWEM Membership Portal, featuring deep integration between Drupal 8/9 and CiviCRM for comprehensive member lifecycle management, event registration, and payment processing. Optimized Drupal backend performance with custom MySQL queries and designed a custom database structure for CiviCRM data synchronization. Developed responsive frontend components using Drupal Views to display real-time CiviCRM data.
- **FEMS Unified Platform (Federation of European Microbiological Societies):** Led the technical development of the FEMS platform, integrating Drupal with CiviCRM to provide robust membership, event, and scientific publication management functionalities, including multilingual support. Implemented dynamic content display using Drupal Views connected to CiviCRM data.
- **Carers UK Self-Service Portal:** Developed a Drupal-based self-service portal with extensive CiviCRM integration, enabling carers to manage profiles, access resources, and update membership details. Implemented custom Drupal workflows and CiviCRM forms, resulting in a significant reduction of administrative overhead for the client.
- **FOSFA Arbitration Portal (Federation of Oils, Seeds and Fats Associations):** Engineered a secure, Drupal-based digital platform for FOSFA to manage arbitration case submissions, tracking, and overall case lifecycle. Developed custom Drupal modules for specialized case handling and implemented robust role-based access controls and workflows, including integration with FOSFA's external data systems.
- **Disability Rights UK Website:** Led the frontend and backend Drupal development for the Disability Rights UK website, ensuring full WCAG 2.1 AA compliance. Implemented custom Drupal themes using Bootstrap, and developed accessible features, including keyboard navigation and screen reader support.
- **Intake Education Platform:** Delivered a high-performance Drupal backend for the Intake Education Platform, designed to manage large volumes of university and student data through REST API integrations (processing >2000 responses). Implemented automated data synchronization processes using cron jobs for over 1500 Drupal nodes and developed a custom content ranking algorithm.
- **Washington.org (MMGY Global):** Executed the Drupal 7 to Drupal 8 migration for the high-traffic Washington.org platform. Responsibilities included Drupal backend optimization using advanced MySQL query tuning and caching strategies (Varnish, Memcached); frontend redesign using Drupal theming best practices and Pattern Lab; development of custom Drupal components like breadcrumbs and dynamic ad arrays/blocks.

SKILLS

Drupal (Versions 7-10): Site Building, Custom Module Dev (OOP PHP), Theming (Twig), API Mastery (Forms, Entity, DB, Cache), Performance Tuning, Headless Architecture, D7+ Migrations; Core Contributions (50+ issues); Tools: Drush, Composer, Git, Config Management; Platforms: Acquia Cloud, Platform.sh

CiviCRM: Configuration, Customization (Fields, Profiles), Drupal Integration (CiviCRM Entity, Webform CiviCRM), Key Modules (Membership, Events, Case Management, Contributions), CiviRules, Data I/O, Basic Extension Dev & API

Web Stack & APIs: OOP PHP, MySQL (Optimization, Schema Design), HTML5, CSS3 (Sass/LESS), JavaScript (ES6+, jQuery); RESTful API Design & Consumption, JSON, XML

Development Tools & Practices: Git/Bitbucket, JIRA, Linux Environment, Postman, Agile/Scrum Methodologies, OOP
Problem Solving & Mindset: Analytical Thinking, Detail-Oriented & Big-Picture View, Pragmatic Solutions, Troubleshooting, Adaptability, Resourcefulness.

OPEN SOURCE CONTRIBUTIONS & MENTORSHIP

GSoC Mentor @ Drupal Association Google Summer of Code

May 2024 - Sep 2024 (5 months)

- Mentored student contributors on Drupal projects as part of the Google Summer of Code program, providing technical guidance, code reviews, and support to help them complete their projects and contribute to the Drupal ecosystem. (Received Completion Certificate)