

Sameer Kumar Choudhary

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PROFESIONAL SUMMARY

Visionary Senior Web Application Architect & Consultant with 9+ years of experience, expertly delivering robust, scalable web solutions that consistently drive 60% efficiency gains, and 20% user satisfaction increases through strategic architecture, full-stack development (Python, PHP, Drupal, CMS/LMS), and Azure cloud integration. Passionate about leveraging AI/ML to build innovative, data-driven solutions and lead agile, cross-functional teams.

PROFESSIONAL EXPERIENCE

Capgemini America

- Senior Consultant, Financial Services

Oaks, Pennsylvania

July 2022 – Present

Apigee Developer Portal: <https://developers.seic.com/browse/home>

- Standardized and improved key developer portal processes using Confluence, including Devportal segregation (enhancing security), User Onboarding (reducing time by 60%), API versioning (reducing API Doc creation time to 60 seconds), and Application onboarding with Apigee.
- Architected and developed the SEI Developer Portal using Drupal, PostgreSQL, Nginx, APIGEE, Vagrant, SiteMinder, and PHP to ensure scalability, performance, and security.
- Led migration of the Developer Portal from Drupal 9 to Drupal 10 using Vagrant and Kubernetes, enhancing scalability and performance.
- Developed a custom module for API Doc Versioning integrated with Bitbucket and Gitlab, using Drupal's Entity Types, Fields API, and Taxonomy for improved Developer experience.
- Customized Drupal Apigee modules for integration with Apigee Edge, enabling application analytics, API product management, data flow for APP creation, and RBAC for API products. Enhanced API documentation readability using Redocly's framework, reducing support requests by 10%.
- Designed and implemented the information architecture and Developer Portal experience, including Marketplace, File Integrations, Knowledgebase, and Blogs pages. Leveraged Drupal Field APIs, Paragraphs, Views, Webforms, Layout Builder, Taxonomy, Entity API, Entity Reference, and Block System to improve content management efficiency. Achieved a 20% increase in user satisfaction with site navigation.
- Collaborated with the UI/UX design team via Figma to develop the portal's enhanced user interface.
- Developed automated support ticket creation for consumers to report product issues or recommendations, reducing manual support efforts by 25% and improving response time by an average of 2 hours.
- Created a custom Drupal module for granular cookie consent and user preferences integration with OneTrust's Platform, ensuring compliance with GDPR and CCPA regulations to reduce legal risk.
- Engineered and customized website themes using Drupal Paragraphs, ensuring responsive design, SEO optimization, and adherence to W3C/WCAG accessibility standards.
- Addressed critical IBM Pen Test reports by contributing priority patches, significantly mitigating security vulnerabilities and ensuring system integrity.
- Enhanced Developer Portal security by adding Veracode and Burp Suite scans to the codebase and engaging in quarterly Veracode training to maintain awareness of evolving security practices.
- Evaluated existing business processes and presented findings and recommendations to executive-level stakeholders, effectively communicating key insights and action plans.
- Onboarded and mentored new resources, handled estimations, client interactions, requirement gathering, demos, project documentation, and deployments.
- Developed internal web platforms using Python and Django for data visualization of User, Apps, Reports on API Docs, Broken link checker, and Alerts.

SEI AI Centre of Excellence: Products & Services to build solutions to enhance the SEI capabilities in AI Space

- Designed and developed AI-driven services within an Agentic Framework using Azure AI Services and Cosmos DB, following microservices principles to enable independent scaling and deployment of AI functionalities.
- Developed an automated AI agent for WCAG, ADA Compliance, SEO, and other web standards checking and report generation.
- Led the ideation and development of various use cases, including intelligent document automation for contract and subscription document processing.

- Collaborated with a team of 6 to develop internal AI agents (FOSS Approval Request Form, SEI GPT for knowledgebase) using Streamlit, LangGraph, LangChain, and Azure OpenAI for the Agentic Framework.
- Designed and conceptualized AI agent integration with the Apigee Developer Portal, projecting a 50% increase in user visits and interactions.

Capgemini

Hyderabad, India

• Senior Consultant, Financial Services

April 2019 – July 2022

- Collaborated on new architecture design and development plan of SEI Developer Portal for more secure and robust platform.
- Migrated SEI Developer Portal from Drupal 7 to new symphony architecture of Drupal 9 successfully with immediate result in performance and access.
- Collaborated with the UI/UX design team via Figma for the development of the portal's user interface.
- Supported infrastructure setup and configuration in various environments.
- Implemented user onboarding flow integrating SiteMinder, Apigee, Jira, and Drupal.
- Implemented Postman Collection embeddings to API Docs for better Developer experience.
- Custom Drupal Module to Integrate Matomo Analytics to SEI Developer Portal for User & Event tracking and reporting.
- Design, Development and Maintenance of Developer portal using Drupal 7, Apigee, PostgreSQL, Nginx.
- Engineered a custom Drupal Module for dynamic PDF generation from API Product pages, adhering to SEI branding and standards via PHP Libraries, resulting in a 50% increase in page visits and enhanced content engagement.
- Responded to Pen Test reports and coordinated patching it on priority.

LiquidHub

Hyderabad, India

• Consultant, Digital Practice

May 2018 – April 2019

- Projects: [PACT](#), [Counsyl](#), [AirClass](#), Liquid Learning (Internal Learning Platform), Centre of Excellence (CoE).
- Rebuilt AirClass websites in Drupal 7 hosted on Acquia and local setup using Acquia Dev Desktop.
- Migrated AirClass from Drupal 7 to Drupal 8, upgrading custom Modules and custom theme to Drupal 8 standards.
- Revamped Internal e-Learning website of LiquidHub built using LAMP stack and Moodle as LMS.
- Redesigned PACT WordPress websites to new design, integrating Annual Award Webform and workflows, resulting in improved user engagement and streamlined award submissions while adhering to WCAG standards and SEO best practices.
- Integrated Google Analytics to PACT WordPress portal for monitoring user traffic and event tracking.
- Integration of Salesforce CRM and Zoho CRM with Drupal portals.
- Redesigned Counsyl WordPress website to new design with integrations to APIs, Google Analytics and Job Board.
- Worked on custom modules, plugins, theming, migration, bug fixing, release, and maintenance.
- Developed Analytics Report Dashboard using Google Data Studio for SharePoint websites.
- Contributed to Centre of Excellence (CoE) on RFPs with Pre-Sales Team and helped in providing support in design and specifications.
- Contributed Drupal 8 Modules like Drupal Chatbot using Drupal and Dialogflow and Twitter Tweets Module to Drupal community as part of practice.

Freelancer /Consultant

Hyderabad, India

• Freelancer / Consultant

March 2017 – May 2018

- Responsive Web Design and development to hosting.
- Python automation project for web scrapping and data cleaning.

Endeavour Software Solutions

Hyderabad, India

• Software Engineer, Digital Practice

January 2017 – March 2017

- Customized Flyingkart E-commerce website with a responsive design using CakePHP, MySQL, HTML, CSS3, and Bootstrap, boosting mobile traffic and conversion rates..
- Explored and ideated to have Web as Mobile app. Developed a basic APK Android studio to be hosted at Playstore, leading to 50% increase in User visits.
- Worked on Integrating Google Analytics to the website to capture User visits, journeys and clicks.
- Redesigned the portal and UI to a User centric navigations and access, leading to more user traffic on the portal.

- Collaborated with cross-functional teams to successfully deliver comprehensive solutions for clients.
- Implemented customer relationship management (CRM) systems, improving client engagement and retention rates.
- Worked on capacity building in e-Learning technologies using Moodle and SCORM standards.
- Collaborated on Request for Proposals for Technical design and Questionnaire to support RFP Team.

Centre for Development of Advanced Computing

Hyderabad, India

● Project Engineer I, Research & Development

November 2014 – December 2016

- Worked on initial PoCs to validate various CMS platforms like WordPress, Drupal and Plone in terms of stability, complexity and developing custom tailored features.
- Validated various CMS platforms like WordPress, Drupal, and Plone through initial PoCs, assessing stability, complexity, and custom feature development.
- Developed [23 multi-lingual](#) and multi-site portals with 50K users using Plone CMS and Python, leveraging MVC-like architecture to manage complex content and user interactions as a Full Stack Developer.
- Introduced OTP-based login and integrated SSO using LDAP, increasing user onboarding and visits by 50%.
- Conceptualized and integrated Related Languages Content Links Portlet in 23 portals based on page metadata, leading to a 25% increase in user visits.
- Integrated keyboard support for multiple Indian languages using jQuery libraries and screen reader as part of WCAG compliance initiatives.
- Enhanced and developed GUI for Vikaspedia home pages with different home page doodles and internal pages (Donors, Mobile Applications, Volunteers, SNA's, etc.), increasing user visits on the landing page.
- Developed multi-site architecture within a single Plone instance to optimize resource usage.
- Developed and maintained RESTful APIs, ensuring adherence to REST principles for seamless integration and data accessibility.
- Automated e-delivery of monthly newsletters to over 62,000 users, improving traffic.
- Developed products and services (Recaller, EOI, Ask an Expert, e-CHARAK) to provide a wide range of offerings.
- Integrated Google Analytics for traffic review and analysis.
- Trained students in Python at C-DAC's DITISS (PG Diploma in IT Infrastructure Systems and Security) for two consecutive batches.
- Provided technical expertise throughout all project phases, ensuring accurate execution of designs and specifications.
- Engaged in industry forums and workshops to stay updated on new trends and technologies, applying insights to enhance project performance.
- Conducted research to identify and evaluate new technologies and concepts.

EDUCATION

Haldia Institute of Technology

Haldia, India

● B-Tech - Information Technology

August 2010 – June 2014

- GPA: 8.1
- Relevant coursework: Data Structures and Algorithms, Database Management, Software Engineering, Operating System

IIIT-H

Hyderabad, India

● M-Tech - Computer Science

July 2017 - August 2018 (Partially Completed)

- Enrolled to Part Time Master of Technology
- Course Undertaken: CSE540 Research in Information Technology, CSE445 Data Warehousing and Data Mining, CSE418 Principles of Information Security

SKILLS

- **Programming Languages:** Python, PHP, JavaScript, React (Developing expertise)
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Frameworks:** Django, Symphony, Flask, CakePHP
- **CMS/LMS:** Drupal (10, 9, 8, 7), WordPress, Moodle, Plone, Joomla
- **Cloud Computing: Azure: Developing expertise in Azure Cloud Services**
- **AI/ML: Developing expertise in:** NLP, Scikit-Learn, LangChain, LangGraph, Matplotlib, Streamlit, Web Crawling (Scrapy, BeautifulSoup, Selenium)
- **Data Analytics:** Google Analytics, Matomo Analytics, Data Studio
- **Data Integrations:** Informatica, SSIS, Azure Data Factory

- **Data Warehousing & Big Data:** Google BigQuery, Teradata
- **Tools:** Git, Jira, Bitbucket, Confluence, Composer, Drush
- **Operating Systems:** Linux, Windows
- **Security Testing Tools:** Veracode Static Scan, Burp Suite
- **Methodologies & Practices:** Agile (Scrum, Kanban, SAgE), DevOps practices, Scalability, Reliability, Security, Performance, System Design, Integration, Design Patterns
- **APIs:** REST APIs
- **Agile Methodologies:** Scrum, Kanban, SAgE
- **Compliance and Data Privacy:** GDPR, Data Privacy, Consent Management

ADDITIONAL INFORMATION

- **Certificates & Achievements:**
 - Awarded 'Most Creative Solution' at the SEI Enterprise Hackathon (Dec 2024) for an architecture design for an in-house Document Management System using Python, Django, and an open-source tech stack.
 - Awarded 'Time to Market Solution' at the SEI AI-Thon (Nov 2024) for automating open-source library requests and Infosec approvals using Azure OpenAI, Streamlit, LangChain, and SharePoint API.
 - Awarded 'Time to Market Solution' at the SEI Enterprise Hackathon (June 2024) for Sales Funnel enabled Demo Experience Platform with capability to experience the Products and Offerings on demand.
 - [CPR/First-Aid and Blood-Borne Pathogens Training](#) in accordance with American Heart Association Heartsaver First Aid CPR AED Program, Nov 2024
 - Contributed to the successful planning and execution of multiple Technology Events for over 200 attendees
 - Participated in building [COVID-19 Web Based Solutions](#) at IBM Call for Code 2020 using AI Python, Django, IBM Watson, IBM DB2
 - Capgemini Art from Waste 2019 Winner
 - Tech-Fiesta Capgemini 2019: Bagged Gold category Winning Award in Capgemini Tech-Fiesta Hackathon 2019 for building a Drowsiness detection web/mobile app for Drivers using Python, OpenCV, Django, Live Stream app
 - Participated in Call for Code IBM 2019 on Disaster Recovery Management using Artificial Intelligence using Python, Django, Computer Vision, IBM Watson, IBM DB2
 - Presented Paper at IACC-2016: Certificate of Appreciation for presenting a paper on Simple and Secure OTP based Authentication Mechanism for Content Management Systems – Plone as a case in 6th IEEE International Advance Computing Conference (IACC-2016)
- **Professional Development Courses/Certifications:**
 - [Certified SAgE® 6 Scrum Master \(SSM\)](#) | Scaled Agile, Inc. | June 2025
 - [Design Research](#) & Design Thinking | Feb 2025
 - [CAST Imaging certified User](#) by CAST Imaging Certification Program | July 2024
 - [LO- Aspiring Architect](#) by Capgemini Global Certification Board | September 2023
 - [Connected Manager](#) from Capgemini + HARVARD ManageMentor / Spark | 23rd Jan 2023
 - [Fundamentals of Project Planning and Management](#) by University of Virginia | 2021
- **Independent Projects:**
 - **Project Title:** [Drupal Chatbot](#)
 - **Description:** To automate customer experience and enquiries using Drupal and AI
 - **Technologies/Skills:** AI, Drupal, NLP
 - **Project Title:** [Twitter Tweets](#)
 - **Description:** To enhance social media engagement with configurable blocks
 - **Technologies/Skills:** Twitter API, Drupal, Blocks
 - **Project Title:** [SAUKHYAMASTHU](#)
 - **Description:** A web Platform for Self-Reporting, Visualizations & Insights, COVID-19 Information to combat Pandemic
 - **Technologies/Skills:** IBM Cloud, DB2, Python, Flask, IBM Watson
 - **Project Title:** [PDF-Deidentification](#)
 - **Description:** Web Based Tool to De-Identify or Redact PII information in PDF or Receipts before publishing
 - **Technologies/Skills:** Python, Django, Python Libraries- pdfminer, pdfcrow, OpenCV