Sameer Kumar Choudhary

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PROFESIONAL SUMMARY

Highly motivated Senior Web Application Architect & Consultant with over 9+ years of experience in architecting and delivering robust, scalable web solutions. Expertise in Python, PHP, and various CMS/LMS platforms, with a strong foundation in Azure cloud. Passionate about AI/ML and data technologies to build innovative, data-driven solutions. Proven ability to lead cross-functional teams in agile environments.

PROFESSIONAL EXPERIENCE

Capgemini America   **Oaks, Pennsylvania**

- *Senior Software Engineer, Financial Services*   July 2022 – Present

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

- o Architected design and development of SEI Developer Portal using (Drupal, PostgreSQL, Nginx, APIGEE, Vagrant, SiteMinder, and PHP) focusing on scalability, performance, and security.
- o Spearheaded collaboration with cross-functional teams to migrate Developer Portal from Drupal 9 to Drupal 10 using Vagrant and Kubernetes, enhancing scalability and performance.
- o Created high-level design and architecture documents using Confluence to standardize and improve key developer portal processes such as Devportal segregation into public and private instances (improving security), User Onboarding (reducing onboarding time by 60%), API versioning reducing API Doc Creation time to 60 secs and Application onboarding with Apigee.
- o Architected and developed Custom Module for API Doc Versioning integrated with Bitbucket and Gitlab emphasizing modularity using Drupal's Entity Types, Fields API, and Taxonomy to structure API references for increased Developer experience.
- o Developed and customized Drupal Apigee modules to integrate with Apigee Edge for application analytics, API product management, and data flow for application creation and role-based access control (RBAC) for API products. Leveraged Redocly's framework to enhance API documentation readability, reducing support requests by 10%.
- o Architected the information architecture and Developer Portal experience by designing and implementing the Marketplace, File Integrations, Knowledgebase, and Blogs pages, leveraging Drupal Field APIs, Paragraphs, Views, Pathauto, Webforms, Layout Builder, Taxonomy, Entity API, and Entity Reference, Menu API, and Block System improving content management efficiency and information. Resulting in 20% increase in user satisfaction with site navigation.
- o Collaborated with the UI/UX design team via Figma for the development of the portal's enhanced and compelling user interface.
- o Developed automated support ticket creation for consumers to report product issues or recommendations.
- o Developed custom Drupal module to implement granular cookie consent, manage user preferences integration with OneTrust's Platform. Ensuring compliance with GDPR and CCPA regulations to adhere to data privacy best practices and reducing legal risk.
- o Engineered and customized website themes sing Drupal Paragraphs, ensuring responsive design, SEO optimization, and adherence to W3C/WCAG accessibility standards.
- o Responded to IBM Pen Test reports and contributed patching on priority.
- o Contributed to Developer Portal's security by adding Veracode and Burp Suite scans to the codebase and engaged in quarterly Veracode training to maintain awareness of evolving security practices.
- o Evaluated existing business processes and Presented findings and recommendations to executive-level stakeholders, effectively communicating key insights and action plans.
- o Onboarded and mentored novel resources, handled estimations, client interactions, requirement gathering, demos, project documentation, and deployments.
- o 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

- o Designed and developed AI-driven services within an Agentic Framework, utilizing Azure AI Services and Cosmos DB, following microservices principles to enable independent scaling and deployment of AI functionalities.

- o Developing an automated AI agent for WCAG, ADA Compliance, SEO and other Web standards checker and report generator.
- o Led the ideation and development of various use cases including intelligent document automation for contract and subscription document processing.
- o Collaborated in a Team size of 6 people to develop internal AI agents (FOSS Approval Request Form, SEI GPT for knowledgebase) using Streamlit, LangGraph, LangChain Azure OpenAI for Agentic Framework.
- o 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
    - o Collaborated on new architecture design and development plan of SEI Developer Portal for more secure and robust platform.
    - o Migrated SEI Developer Portal from Drupal 7 to new symphony architecture of Drupal 9 successfully with immediate result in performance and access.
    - o Collaborated with the UI/UX design team via Figma for the development of the portal's user interface.
    - o Supported infrastructure setup and configuration in various environments.
    - o Implemented user onboarding flow integrating SiteMinder, Apigee, Jira, and Drupal.
    - o Implemented Postman Collection embeddings to API Docs for better Developer experience.
    - o Custom Drupal Module to Integrate Matomo Analytics to SEI Developer Portal for User & Event tracking and reporting.
    - o Design, Development and Maintenance of Developer portal using Drupal 7, Apigee, PostgreSQL, Nginx.
    - o Developed custom Drupal Module dynamic PDF generation from API Products pages supporting SEI brandings and standards using PHP Libraries leading to 50% increase in page visits.
    - o Responded to Pen Test reports and coordinated patching it on priority.

LiquidHub   **Hyderabad, India**
- ● *Consultant, Digital Practice*   May 2018 – April 2019
    - o Projects: PACT, Counsyl, AirClass, Liquid Learning (Internal Learning Platform), Centre of Excellence (CoE).
    - o Rebuilt AirClass websites in Drupal 7 hosted on Acquia and local setup using Acquia Dev Desktop.
    - o Migrated AirClass from Drupal 7 to Drupal 8, upgrading custom Modules and custom theme to Drupal 8 standards.
    - o Revamped Internal e-Learning website of LiquidHub built using LAMP stack and Moodle as LMS.
    - o Redesigned PACT WordPress websites to new design, with complex functionality of integrating Annual Award Webform, workflows and with considerations to WCAG standards and SEO.
    - o Integrated Google Analytics to PACT WordPress portal for monitoring user traffic and event tracking.
    - o Integration of Salesforce CRM and Zoho CRM with Drupal portals.
    - o Redesigned Counsyl WordPress website to new design with integrations to APIs, Google Analytics and Job Board.
    - o Worked on custom modules, plugins, theming, migration, bug fixing, release, and maintenance.
    - o Developed Analytics Report Dashboard using Google Data Studio for SharePoint websites.
    - o Contributed to Centre of Excellence (CoE) on RFPs with Pre-Sales Team and helped in providing support in design and specifications.
    - o 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
    - o Responsive Web Design and development to hosting.
    - o Python automation project for web scrapping and data cleaning.

Endeavour Software Solutions   **Hyderabad, India**
- ● *Software Engineer, Digital Practice*   January 2017 – March 2017
    - o Worked on customizing Flyingkart E-commerce website using CakePHP, MySQL, HTML, CSS3 and Bootstrap to build a Responsive Design.
    - o 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.
    - o Worked on Integrating Google Analytics to the website to capture User visits, journeys and clicks.

- o Redesigned the portal and UI to a User centric navigations and access, leading to more user traffic on the portal.
- o Collaborated with cross-functional teams to successfully deliver comprehensive solutions for clients.
- o Implemented customer relationship management (CRM) systems, improving client engagement and retention rates.
- o Worked on capacity building in e-Learning technologies using Moodle and SCORM standards.
- o 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
    - o Worked on initial PoCs to validate various CMS platforms like WordPress, Drupal and Plone in terms of stability, complexity and developing custom tailored features.
    - o Developed 23 Multi-Lingual and [Multi-Site Portals](#) having 50K Users using Plone CMS and Python leveraging its MVC-like architecture to manage complex content and user interactions as Full Stack Developer.
    - o Developed and Introduced OTP based login and Integrated SSO using LDAP and increased the user onboarding and visits by 50%.
    - o Conceptualized and Integrated Related Languages Content Links Portlet feature in 23 Portals for similar contents in Web Page based on Page Metadata, leading to increase in visit of Users on each portal by 25%
    - o Integration of Keyboard support for multiple Indian Languages using jQuery Libraries and Screen reader as part of WCAG compliance initiatives.
    - o Enhancement and Development of GUI of Vikaspedia Home pages with different Home page Doodles and Internal Pages (Donors, Mobile Applications, Volunteers, SNA's etc.), leading to increase user visits on the landing page.
    - o Development of multi-site architecture for in a single Plone instance to optimize the resource usage
    - o Developed and maintained RESTful APIs, ensuring adherence to REST principles for seamless integration and data accessibility.
    - o Automated e-Delivery of monthly newsletters to more than 62,000 users which improved traffic
    - o Development of Products & Services (Recaller, EOI, Ask an Expert, e-CHARAK) to provide wide range of Product and Services.
    - o Integrated Google Analytics and reporting for review and analysis of traffic
    - o Python Trainer for students of C-DAC's DITISS (PG Diploma in IT Infrastructure Systems and Security) for consecutive 2 batches.
    - o Provided technical expertise throughout all phases of the project, ensuring accurate execution of designs and specifications.
    - o Engaged in industry forums and workshops to stay abreast of new trends and technologies, applying insights to enhance project performance.
    - o 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
    - o GPA: 8.1
    - o 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)
    - o Enrolled to Part Time Master of Technology
    - o 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 Technologies:** Google Analytics, Matomo Analytics, Data Studio
- **Tools:** Git, Jira, Bitbucket, Confluence
- **Security Testing Tools:** Veracode Static Scan, Burp Suite
- **Other:** REST APIs, DevOps practices, Linux, Windows
- **Agile Methodologies:** Scrum, Kanban, SAFe
- **Software Design Principles:** Scalability, Reliability, Security, Performance, System Design, Integration, Design Patterns
- **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, Dango, 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 SAFe® 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
  - L0- 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, pdfrw, OpenCV