Aashay Chapatwala

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PROFILE

Engineering leader with 11+ years of experience across global payments, digital authentication and digital experience platforms. Currently Manager, Software Engineering at Mastercard for Commercial & New Payment Flows, covering cross-border payment services, customer onboarding workflows and transaction processing. Earlier work spans FIDO2 and 3DS authentication services, Adobe Experience Manager from CQ 5.6 to AEM as a Cloud Service, enterprise search and edge delivery. Progressed from hands-on engineering to system design and architecture, and on to leading delivery and supporting teams.

CORE SKILLS

Design & architecture	System design, HLD and LLD with PlantUML, microservices, cloud-native design, API gateway, service discovery, resiliency patterns and circuit breakers, actor-based model
Security & compliance	FIDO2, 3DS, OAuth 1.0 and 2.0, mTLS, LDAP, single sign-on; Checkmarx One, GitHub Advanced Security (CodeQL, Dependabot); DORA compliance; consent, cookie and privacy management
Backend	Java, Spring Boot, Python, Node.js, J2EE, APIs and OpenAPI integrations
Data & caching	Oracle with GoldenGate, PostgreSQL with synchronous replication, Redis, Hazelcast, MongoDB, Amazon DocumentDB, PL/SQL
Cloud & delivery	AWS (EC2, S3, CodeBuild), Kubernetes, Docker, CI/CD, Jenkins, Bamboo, Maven, Gradle, Bitbucket, GitHub, Sonar; observability with Grafana, Dynatrace and Splunk Cloud
Web	TypeScript, JavaScript, HTML5, CSS, Angular, Stencil, accessibility (WCAG), Core Web Vitals
Digital experience	Adobe Experience Manager 6.1 to 6.5 and CQ 5.6, AEM as a Cloud Service, Apache Solr, Akamai (CDN, NetStorage, edge services), Adobe Analytics
Ways of working	Agile delivery, AI-native spec-driven development with OpenSpec, solution leadership, mentoring

EXPERIENCE

Mastercard

Pune, India · Oct 2018 – Present

Manager, Software Engineering (CNPF) — Oct 2024 – Present

- Commercial & New Payment Flows: Cross Border Payment Services, customer onboarding workflows, transaction processing and configuration management.
- AI-native, spec-driven development using OpenSpec.
- Technologies: Hazelcast, Redis, MongoDB, DocumentDB, actor-based model, AWS (EC2, S3, CodeBuild), Kubernetes, Docker, Grafana, Dynatrace, Splunk Cloud.

Lead Software Engineer (CORE) — Jul 2023 – Oct 2024

- Digital Authentication Services: FIDO2, 3DS, Secure Remote Commerce and Mastercard Checkout Services.
- System design with PlantUML, HLD and LLD; resiliency, circuit breakers and OpenAPI integrations.
- Technologies: OAuth 1.0, mTLS, NetStorage, BrowserStack, OpenAPI.

Lead Software Engineer (TECH) — Sep 2021 – Jul 2023

- AEM as a Cloud Service, API gateway and service discovery; system design and architecture, and cloud-native design.
- Project management, strategic planning and thought leadership.

Senior Software Engineer — Feb 2020 – Sep 2021

Digital Experience Platform (DXP): AEM 6.5, Stencil, Spring Boot microservices, Angular, TypeScript, Apache, F5 and Akamai.

- Designed a microservice-based solution to fetch search data from Apache Solr.
- Key member of the in-place upgrade from AEM 6.3 to 6.5.
- Designed and developed a solution to serve protected content through AEM using the Akamai EdgeAuth API, NetStorage functionality to push DAM content to Akamai, and EdgeScape location detection.
- Built automation to create AEM components from Stencil web components, and an end-to-end sample web component with unit and e2e tests.
- Designed a custom JSON log format to meet enterprise standards and set up monitors for failure scenarios.

Software Engineer Developer II — Jul 2019 – Feb 2020

DXP build and quality tooling: AEM, Solr, Jenkins, Gradle, Adobe Analytics and Checkmarx.

- Moved the platform from a custom deployment model to CI/CD, working with Jenkins, Groovy scripts and Chef.
- Integrated quality gates including Lighthouse, JaCoCo, Checkstyle, Sonar and Checkmarx, and added Git hooks for code coverage and commit-message standards.

- Integrated AEM with Adobe Analytics to capture user movement across the site.
- Built dynamic sitemap and robots.txt generation for SEO, and integrated Evidon as the cookie consent solution.

Associate Senior Engineer Oct 2018 – Jul 2019

DXP foundations: custom SPA editor, Content Fragments, product exploration, requirement analysis and estimations.

- Developed custom Content as a Service (CaaS) endpoints that provide data such as navigation and sitemap to single-page applications, with a custom authentication filter for authorized requests.
- Built a dynamic theme-fetching model for component dialogs and pages using a datasource servlet.
- Created a replication-event listener to invalidate cache on Dispatcher and Akamai, and a workflow to identify restricted images before publishing.
- Improved repository documentation for the DXP CMS.

NextRow Digital

Pune, India · Aug 2017 – Oct 2018

Senior AEM Developer Project: Mastercard BrandOS/CIS

- Integrated Apache Solr with AEM for indexing and querying custom data, and built an offer grid component that fetches offer data from Solr.
- Developed backend Java code end to end, including JUnit test cases.
- Implemented components for offers and filter pages that comply with the Web Content Accessibility Guidelines.
- Added i18n localization, Adobe Analytics click tracking and a live inventory integration for offer status.
- Technologies: AEM 6.3, Solr, Bamboo, Sonar, Bitbucket; Agile delivery.

Infosys

Pune and Mysuru, India · Jun 2015 – Aug 2017

Senior System Engineer Jun 2017 – Aug 2017

Cummins Power Generation, ChannelOne Dealer Portal: AEM 6.1, Git, Maven, LDAP and single sign-on.

- Integrated LDAP and SiteMinder for user sync and authentication.
- Implemented single sign-on for same-domain and cross-domain sites, and installed the secure certificate for BrandMuscle SSO web services.
- Resolved security and vulnerability findings from ZAP application-scan reports.

System Engineer Nov 2015 – Jun 2017

Cummins Power Generation, ChannelOne Dealer Portal (phases 1 and 2): CQ 5.6, AEM 6.0 and 6.1, Waterfall delivery.

- Developed components, templates, pages, dialogs, servlets and a custom tag library.
- Configured Multi Site Manager with Blueprints and Live Copy for role, language and region-based access, with i18n translation.
- Upgraded the application from CQ 5.6.1 to AEM 6.1 and ran offline repository compaction to reduce storage use.
- Built workflows, schedulers and a mailing system; extended DAM metadata forms with business-specific fields.
- Implemented Google Tag Manager for site analytics and integrated ZOHO for form submission.

System Engineer Trainee Jun 2015 – Nov 2015

- Completed Infosys stream training at Mysuru in core Java, J2EE, JSP, JSF, JSTL and JavaScript, and generic training in Python and PL/SQL.
- Batch topper in the Advanced Java training.

CERTIFICATIONS

- Adobe Certified Master: Adobe Experience Manager Sites Architect
- Adobe Certified Expert: AEM as a Cloud Service Migration (2022)
- Adobe Certified Expert: AEM Developer (2016)
- Microsoft Certified: Azure Fundamentals, AZ-900 (2023)
- Sun Certified Java Developer, Oracle (2015)
- Marketing Technology Fundamentals, MMA Global (2022)
- Pluralsight training: Spring Framework and Spring Boot Actuator (2020), Enterprise Search using Apache Solr

RECOGNITION

- Contributor to the ACS AEM Commons open-source library.
- Published a KShop knowledge-portal article, “AEM integration with Eclipse”.

EDUCATION

- B.Tech, Electronics & Communication Engineering, Sardar Vallabhbhai National Institute of Technology (NIT Surat), 2011 – 2015. CGPA 8.72/10.
- Higher Secondary (12th), GSEB: 87.6%. Secondary (10th), GSEB: 91.54%.

COMMUNITY & INTERESTS

- Volunteer with Prayas, an animal welfare organisation, since 2010.
- Publicity Head, Sparsh techno-cultural fest, NIT Surat (2015); publicity coordinator, MindBend techno fest.
- Scribe for blind students at Andhajan Shikshan Mandal.
- Interests: nature preservation and hiking.