



HAMZA EL AFFANI

PAYMENT SOFTWARE ENGINEER

/ ABOUT ME

Experienced software engineer, specialized in building secure, modern and performant payment systems and applications.

/ SKILLS

>> Languages

- > French, English, Aabic.
- > Java 17, Javascript, TypeScript, HTML, SCSS, Oracle (PL/SQL), GraphQL.

>> Frameworks & librairies

- > Jakarta EE, JavaFX, Spring Boot, Batch, Security, Hibernate, Maven, Gradle, JUnit, Docker, AWS services, Struts2, JSF, AspectJ, Swing, Jasper Reports.

- > Angular, React, Gatsby, Node.JS, Express, Redux, Karma, Babel, Webpack, NGRX, RXJS, PrimeNG.

- > Scrum, JIRA, Jenkins, Git, SVN, Github, Gitlab, Bitbucket .

- > UML, OCL, .NET platform, Winforms, DevExpress, Ionic, Framework7.

>> Payment

- > PCI DSS/CP & EMV standards, ISO 8583, EMV transaction flow, Galitt, HSM cryptography (Thales payshield 10K, Utimaco Atalla).

/ VERIFIED CERTIFICATIONS



- > Payment Card Industry Professional (PCIP).



- > Spring Certified Professional 2024.



- > AWS Security Certified - Specialty.



- > Certified in Cybersecurity (ISC2).

/ CONTACT

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/ RELEVANT EXPERIENCES (+ 6 years)

>> Consultant - SII Group | January 2023 - Now | Several Missions

>> **NEPTING** | Integrated Softpos functionality into the server and managed Utimaco HSMs within the SoftPos attestation service

- Developed a JCE extension program for the attestation server, enabling connections to a range of Atalla HSMs, to handle encrypting keys.
- Ran acceptance tests for Alipay+, scanning barcodes in both modes: merchant-presented and user-presented mode.
- Developed a JavaFX application for the support team to facilitate the migration of merchant applications to subsequent versions.
- Developed features on the Nepting portal, such as loading transactions by email (using GWT for the UI).
- Built a module to print GICC tickets following the specifications of the GICC protocol.

>> **ADNOV** | Migration of the real estate product from Drupal to a microservices architecture using Java & Angular, AWS Cognito etc

- Maintained legacy existing Drupal platform & conducted tests and identified any bugs.
- Developed requested features on the new base in Java 17 and Angular 16, and unit and integration tests.
- Wrote technical documentation for the developed features.
- Coordinated and collaborated with the team in an agile environment.
- Assisted in improving recently developed features and corrected bugs.

>> **MONEXT** | Specify the functional enhancements of the AXEPTA solution for BNPP

- Drafted the acceptance testing strategy and participated in the testing and functional acceptance phases.
- Executed tests on dedicated environments for internal acceptance and client acceptance.
- Simulated CB2A inputs and VISA and MC flows using the Galitt tool.
- Edited general specifications for an acquisition platform on various subjects (authorizations, fraud).
- Analyzed regulatory constraints for project developments.
- Created necessary mock-ups for project progress and client validation for a transaction visualization portal.
- Participated in project progress meetings.

>> Payment Card Solutions Eng. | S2M | August 2021 - November 2022

>> **Card Personalization Bureau** | S2M Payment Means Unit

- Managed SEDIC projects, overseeing the lifecycle of dual interface, metal, and biometric cards, including personalization (embossing, packaging, delivery), also installed EMV personalization apps and HSM (Thales payShield 10k) for instant card issuing, collaborating with clients across Morocco and Africa (CFG Bank, Société Générale, RAWBANK, etc.).
- Developed an extranet platform for confidential PIN transmission via SMS/email using cryptography, addressed platform incidents, and implemented solutions for seamless transmission. Designed and tested the deployment of PIN/CVV delivery environments.
- Developed a JavaFX app for generating barcode labels for card shipments, collaborating with logistics partners like DHL for parcel tracking. Automated batch report generation for production activities and client billing.
- Ensured compliance for PCI Card Production, handled security audits, and implemented security fixes.
- Managed the integration of SSL/TLS certificates for secure data transmission.

>> Development Engineer - Hightech Payment Systems (HPS)

>> **POWERCARD Payment Product** | September 2018 - August 2021

- Developed functional expertise in acquiring modules like merchant management, settlement, mandates, transactions, and litigation.
- Designed and implemented complex, client-specific features for key clients (CAPS, ABSA, CAPITTEC, etc.), often integrating them into the standard product.
- Led migration efforts of the acquirer module from Flex to Angular and PL/SQL/ProC* to Spring Batch within Docker containers.
- Provided technical solutions to issues like build optimization, code quality (using git hooks, husky, prettier), and persistence misconfigurations.
- Enhanced the solution by integrating APIs (MasterCom) and loading incoming/outgoing network files for schemes like Diners and VISA using Java, Spring, and REST services.
- Analyzed and maintained full-stack code, wrote unit tests, and designed reusable components to an internal shared library.

>> Front-End Developer - Obytes

>> **TheLobby.io associated to Obytes** | March- August 2018

- Contributed to the development, bug fixing of a recruitment support platform that provides, for the candidates, informations about their targeted enterprises, and offers paid 1-on-1 calls with insiders at those companies, mocked interviews, rating etc.
- Designed a React application to measure employee productivity (e.g., numb. of commits, closed tickets) by collecting data from GitHub and Trello APIs, transforming it into graphical indicators to evaluate performance, benefiting the company's operational efficiency.
[//React.JS, Redux, Yup, Tachyons, Stripe, Mixpanel, deployed on Netlify, Jekyll, Slack//](#)

/ ACADEMIC BACKGROUND

>> NATIONAL SCHOOL OF APPLIED SCIENCES - ENGINEERING SCHOOL

> ENSAH (<https://ensah.ma/>) | Morocco | Preparatory & engineering cycles 2012 - 2018 | State Diploma in Software Engineering.

