Khalid Alnuaim

Phone +966 505 250 666
Website https://kalua.im/
Email khalid@alnua.im
GitHub https://github.com/kaluaim/
LinkedIn https://www.linkedin.com/in/khalidalnuaim/

Experience

Engineering Team Lead

National Center for Government Resource Systems (NCGR)

September 2025 – Present

Leading the engineering team responsible for delivering and production-izing Proofs of Concept (PoCs) from the Digital Lab. Drive improvements to engineering workflows and platform capabilities, including testing enablement, observability and monitoring enhancements, caching strategies, cloud-native enablement, AI chat and AI coding agent initiatives, SAP system integration, and engineering analytics and insights—bridging innovation with scalable, enterprise-ready execution.

Software Engineer Consultant

King Faisal Specialist Hospital and Research Centre

January 2021 – August 2025

Led and managed a team in developing a cross-platform employee portal app for iOS and Android using React Native and Expo. Oversaw task assignments, conducted code reviews, and ensured adherence to platform best practices and project timelines, maintaining high code quality and performance.

Software Engineer

Nokia Bell Labs (Murray Hill, NJ, USA)

June 2023 – August 2023

Architected and developed a cross-platform companion app using Kotlin Multi-platform for Android & iOS. Designed an efficient ML model deployment system, scalable data management, and a customizable user experience, ensuring seamless monitoring and historical data tracking.

June 2022 – August 2022

Designed and architected a high-scale simulator for Nokia Environmental Monitoring (NEMo), supporting 100+ autonomous devices. Built with a modular architecture, enabling flexible execution via historical data replay (InfluxDB), live API integration, or synthetic event generation. Optimized for scalability and real-world accuracy.

Software Engineer

Saudi Authority for Intellectual Property

November 2019 – January 2021

Stabilized and optimized the authority's portal for performance and security. Designed and implemented in-house solutions while providing consultation and support to teams and developers across the organization.

Software Engineer

King Faisal Specialist Hospital and Research Centre

June 2018 – November 2019

Designed and implemented an administration portal for a patient gateway to efficiently manage and process patient requests, including appointment scheduling, patient complaints, and personal information updates, while integrating an Access Control List (ACL), database connections, and email/SMS notifications for automated patient engagement.

November 2013 – August 2017

Developed and maintained applications serving patients, employees, and vendors across multiple platforms, including web applications using JavaServer Faces, console applications in Java, and iOS applications with Objective-C. Ensured scalability, performance, and maintainability to support diverse user needs.

Software Engineer

Multimedia Startups (TURBO Studios & RVEALR, New York, NY, USA)

September 2017 – May 2018

Prototyped a client dashboard with a REST API back-end to enable resource management and monitoring, integrated AWS connections into internal admin tools for cloud-based operations, and improved a Spring Framework back-end system by fixing bugs and enhancing performance.

Education

Stevens Institute of Technology

M.S. In Computer Science (2017 – 2018)

Imam University

B.S. In Computer Science (2008 – 2013)

Projects

Various Big Data analytics projects

Developed many MapReduce jobs for massive datasets on HDFS to perform spatial join, detecting outlier based on distance, and performing K-Means clustering. Also developed many Spark workflows to perform indexing of high relative density of grid cells, generating the Frequent Pattern Mining using the Apriori algorithm and producing progressive approximate answers for aggregation queries. In addition to creating a variety of Apache Pig queries and Apache Hive scripts.

Various full-stack development projects

Developed many full-stack projects for different areas (Healthcare, Education, Social, and others) using multiple technologies for front-end like React, Vue.js, JQuery, and Vanilla JS. And multiple technologies for back-end like Spring Boot, Express.js, and Flask. That interacts with different data sources like SQL, NoSQL, REST API, and GraphQL. And communicate with other services like ActiveMQ Artemis and Keycloak.

More projects https://kalua.im/projects/

Awards & Achievements

Winner Best Hack Using a NYC API

HackNY Hackathon Spring 2017
Intel, MongoDB, Twilio and others
https://devpost.com/software/mansplaintome

Winner Most Original Project

DuckHacks Hackathon 2017
Google and JPMorgan Chase & Co.
https://devpost.com/software/duckhacks-share-your-taste

Certificates

Advanced Study in Software Construction

Massachusetts Institute of Technology
http://web.mit.edu/6.031/www/fa19/

React Nanodegree

Udacity
https://confirm.udacity.com/563VRG2S

A developer's guide to the Internet of Things (IoT)

Coursera (9J6KF7RTGT3H)
https://www.coursera.org/account/accomplishments/verify/9J6KF7RTGT3H

Red Hat Certified System Administrator

Red Hat (140-006-149)
https://www.redhat.com/rhtapps/certification/verify/?certId=140-006-149

Skills

Languages	TypeScript, Java, Python, JavaScript, Objective-C
Frameworks	Expo, Express.js, Spring Boot, Flask
Frontend	React, Vue, HTML5, CSS3
Infrastructure	SQL, NoSQL, Node.js, RabbitMQ, GraphQL, InfluxDB, etcd, Redis, Hadoop, Spark, Pig, Hive
CI / CD	Git, Jenkins, Docker
Cloud	AWS