

# Abdulrazzaq Alhendi

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## Experience

**Experienced Associate (Developer)** - The Shared Electronic Banking Services Co. (KNET) (Kuwait) *October 2023 - present*

- Developed an internal portal for managing remote, integrated point of sale devices (iPOS).
- Actively engaged in the "Instant Payments" project, a high-priority initiative with substantial confidentiality requirements. My role involves critical development tasks, adhering to stringent security and compliance standards.

**Jr. Integrations Developer (Back-End)** - Warba Bank (Kuwait) *May 2023 - October 2023*

- Migrated a monolithic banking application to a **microservice architecture** using Kubernetes, significantly enhancing scalability and modularity while transitioning to JDK 17 from JDK 8.
- Implemented distributed tracing to monitor and optimize application performance, reducing latency and facilitating root-cause analysis for issues.
- Contributed significantly to the backend development of the "Pay Me" feature revamp, focusing on **entity model design** and payment processor (KNET) integration.

**Senior Research Technician** - Dasman Diabetes Institute (Kuwait) *July 2020 - April 2023*

- Modeled patient **time-series data** from Electronic Health Record systems through statistical methods. Automated large, repeatable data analysis methodologies with documentation.
- Authored research papers and manuscripts.

**Undergraduate Research Assistant (Dr. Qian Wang)** - Iowa State University (Ames, IA) *March 2018 - Dec 2019*

- Initialized development of a **neuron tracing application** utilizing computer vision and machine learning algorithms to aid advancements in neuron morphology research.
- Contrasted and tested most current automated and semi-automated neuron tracing packages while collaborating with authors on package improvements.

**Undergraduate Research Assistant (Dr. Auriel Willette)** - Iowa State University (Ames, IA) *Jan 2018 - Dec 2019*

- Developed a program to interpret and compare patient response to correct response for a cognitive test in patients following an emotion task recorded using EEG automating a time consuming evaluation process.
- Constructed a batch program to process **MRI brain scans** of multiple subjects as well as perform statistical analysis calculations which **reduced computational and labor costs**.

## Education

**CODED** (Kuwait) *May 2021 - August 2021*

Full-Stack Web Development

- **Stack:** HTML5, CSS3, Bootstrap, React, ExpressJS, PostgreSQL, Sequelize, React Native

**Iowa State University** (Ames, IA) *Jan 2016 - Dec 2019*

B.S. in Chemical Engineering

- **Relevant Courses:** Numerical Methods, Multivariate Calculus, Differential Equations, Algorithm Design and Analysis, Survey of Remote Sensing Technologies

## Recent Projects

**Loxest** *July 2023*

[github.com/aalhendi/loxest](https://github.com/aalhendi/loxest)

- A **dynamic, interpreted language** with OOP in mind. Compiles to bytecode to be executed on its very own **virtual machine**. Distributed as a portable binary with REPL and script loading.
- **Stack:** Rust

**Rogue** *April 2023*

[github.com/aalhendi/rlgame-rs](https://github.com/aalhendi/rlgame-rs)

- A **rougelike dungeon crawler** game and engine implementation. Compiled as native application or served on the browser through **WebAssembly**.
- **Stack:** Rust

**National Bank of Kuwait Hackathon 2021** *July 2021*

[Kuwait Times News Article](#)

- Developed a **digital banking mobile application** targeting children and families to foster healthy personal spending habits and encourage savings. Deadline was 48 hours from design to demonstration. **First place**.
- **Stack:** React Native, Node, PostgreSQL

## Licenses & Certifications

**Object-Oriented Data Structures in C++** *May 2021*

[coursera.org/account/accomplishments/certificate/C2BQW66FSSP4](https://coursera.org/account/accomplishments/certificate/C2BQW66FSSP4)