

Abdulrazzaq Alhendi

Education

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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

Experience

Senior Research Technician - Dasman Diabetes Institute (Kuwait)

July 2020 - April 2023

- Modeling patient time-series data from Electronic Health Record systems through statistical methods. Automating large, repeatable data analysis methodologies with documentation.
- Authoring 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**.

Undergraduate Research Assistant (Dr. Derrick Rollins) - Iowa State University (Ames, IA)

Aug 2016 - Dec 2017

- Automated a **feedforward predictive model control (FFPMC)** system using VBA with desired input step size and desired steps ahead allowing for variable temporal resolution.
- Analyzed and compared research methods of papers following detailed procedures for efficiency of methods used pertaining to relevant predictive model control systems.

Recent Projects

Jackaroo-py

September 2022

github.com/aalhendi/jackaroo-py

- A pure-python **simulation engine** for the board game Jackaroo. Used in artificial agent training and statistical analysis.
- **Stack:** Python, Github Actions (CI/CD)

Bunyan

September 2021

github.com/aalhendi/Bunyan

- Developed a **Mobile Application and Dashboard** to connect land owners looking to build their homes with contracting companies and their workers. Companies set tasks for workers which can be tracked on both the client and company side.
- **Stack:** React, React Native, Node, PostgreSQL

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

Technical Skills (Proficient, Familiar)

Languages

Typescript, Python, C/C++, Rust, Dart, MATLAB, VBA

Data Analysis

NumPy, Pandas, R

Software Engineering

Git, UNIX Shell, Docker

Frontend Development

Next.js, TailwindCSS, React Native Flutter

Backend Web Development

NodeJS, Prisma, Django, Laravel, Rust, GraphQL, RESTful API

Visualization

Matplotlib, Seaborn

Other

Linux