



# ALFIN JAISON MACHINGAL

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Portfolio: <https://alfinjaison.github.io/>

## PROFILE

Software Developer with 3 years of hands-on experience designing, developing and implementing applications using a range of technologies and programming languages. Experienced in deployment, maintenance and agile development methodologies. Adept in all stages of advanced web development. Knowledgeable in user interface, testing, and debugging processes. Proficient in various platforms and languages.

## WORK EXPERIENCE

### Oct 2022 – Current **Coolshop, UAE**

- Worked on a Vehicle Configurator application written in React Typescript using Vite for development environment and bundling. Material UI was used as the primary library for UI components.
- Worked on a Customer portal application with a tech stack including PostgreSQL, PHP, Nodejs for back-end and React with Typescript for front-end. Docker is used for the development environment and deployment.
- Debugged issues in Salesforce and Optimizely integrations written in Nodejs and modified TypeORM definitions in Nodejs and created migration files that were run on PostgreSQL database.

### Sep 2020 – July 2022 **Adeptus Technologies LLC, UAE**

- Worked in developing a mobile app using React Native that provides access to the Building Management System (BMS) for Facility managers. App was published to the [App store](#) and [Play store](#).
- Developed React components and layouts using various libraries which include Ant Design, Konva Js, HighCharts React, React Grid Layout.
- Optimized real time data and alarms notifications features using MQTT messaging broker and provided additional support for the BMS application.
- Worked on projects where technologies used include Next.js, a production grade React framework and GraphQL, a query and manipulation language for APIs.
- Worked on a web application that integrates with Niagara framework to manage IoT devices.

### Jun 2020 – Sep 2020 **Axion Connect, India ( Internship )**

- Worked on a CRM web application written in JSP using Postgres database. The application was used by the business users to keep records of customers, leads and projects.
- Provided support and developed functionalities in frontend and backend of the web application.

## SKILLS

### Client Side

- HTML
- CSS
- JavaScript
- TypeScript
- Reactjs
- Nextjs
- React Native
- Angular
- Bootstrap
- Material UI
- Ant Design
- SASS
- Tailwind CSS
- Storybook
- Wordpress

### Server Side

- Nodejs
- Expressjs
- GraphQL
- Python
- Django
- Flask
- Electron
- Java
- C++
- PostgreSQL
- Redis
- MySQL
- RabbitMQ
- MQTT
- WebSockets

### DevOps

- Git
- Github
- Azure
- AWS EC2
- S3 Bucket
- GCP
- Firebase
- Docker
- Nginx
- SSL

## AWARDS & CERTIFICATES

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Fundamentals of Cloud Computing IIT Guwahati (Coursera)  
Cloud and Content Delivery Systems IIT Guwahati (Coursera)  
Microsoft Azure Administrator Associate Certification 2021  
Innovation Arabia 13 (2020) - Runner-up  
James Dyson Award (2019) – Runner-up  
Smart India Hackathon (2018)- Participation Certificate  
iTrax Coding Competition RSET (2016) – First Place

## EDUCATION

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**BSc Computer Science (Distinction)**  
Heriot Watt University  
2017 - 2020  
Dubai, UAE

## PROJECTS

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### **Aquaponics IoT Project**

- Designed and developed a Dashboard Application that can be used to monitor and control the aquaponics system.
- Project Description: A web application created using HTML, CSS, JavaScript and Bootstrap (responsive design) for front-end and Python Application on Raspberry Pi for backend using Electron.

### **Smart India Hackathon**

- Designed the initial UI of the android application using Google Maps API.
- Project Description: Monitoring MOHFW staff visits using an Android application. The app keeps records of various Health check-up programs and other similar programs.

### **JSP Web application: Ecommerce Website**

- A shopping website consisting of home, products , shopping cart and checkout pages.
- JSP and SQL Database were used in the backend.
- HTML, JavaScript and CSS was used to create the frontend.

### **Home IoT: Django Web Application**

- A Dashboard application for the web platform was made using the Django framework.
- Bootstrap and jQuery were also used in the frontend to make the web pages responsive.
- Authentication pages were set up using existing Django admin modules and Django registration modules were also added.
- JavaScript Library for MQTT protocol was used to set up a client that can communicate with the Raspberry Pi via a MQTT broker. User inputs on the web application were sent using this protocol and sensor readings were retrieved and displayed accordingly.

### **Database Management Systems: MySQL and Java App**

- Relational schema was designed and implemented in MySQL.
- Queries were integrated into the Java App and results were displayed in the GUI (JavaFx)

### **C Project (Security): Steganography**

- Message, password and image (filename) is taken from the user as arguments.
- The message is encoded into the image (PPM file) using the password.
- AES 256-bit CBC Encryption and 24 bit per pixel encoding were also implemented.