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Summary

I'm a full-stack developer, Flutter developer, an experienced backend developer with DevOps experience and an embedded systems enthusiast. I've been programming for over 9 years and I have experiences in a vast variety of applied computer science fields from web designing down to hardware and low-level programming. I have a set of teamwork skills and I handle work pressure appropriately.

Skills

- Programming languages including: Assembly, C/C++, Dart, Rust, Python, GO, HTML, CSS, JavaScript, TypeScript and SQL.
- Mobile application development with Flutter.
- Knowledge of Firebase services including: Cloud Messaging, Firestore, RealtimeDB and Crashlytics.
- Skills in databases including: MS SQL, PostgreSQL, SQLite, MySQL and MongoDB.
- Backend development with Node.js (Express js).
- Frontend development with Svelte.
- System administration knowledge in Linux (Ubuntu, CentOS, Arch).
- Github Actions CI/CD
- Github Projects for project management
- Familiar with DevOps work with DigitalOcean, and AWS basics.
- System designing and prototyping with Arduino.
- Circuit designing in EAGLE.
- IoT systems designing and development with RaspberryPi and ESP8266.
- Experience in educational robotics kits including REV Robotics, LEGO Mindstrom NXT.

Volunteering Work

- **Computer Science Teacher**
    - Worked at Gifted and Talented Students Schools as a Computer Science teacher
    - Taught History of Computer, Workflow of programs and HTML
    - Taught from 4th to 8th grade

- **Science Secretary at Gifted and Talented Students Union**
    - Made plans and distributed work to teams
    - Prepared scientific content for university level students
    - Established a student fair in Sudan University of Science and Technology
- **Introduced sessions on programming in Mechatronics Engineering Inventors community**
    - Gave introduction to programming
    - Worked with groups to keep track of their progress
- **Introduced sessions on programming to students in Sudan University of Science and Technology**
    - Talked about the role of AI
    - Talked about implementation of AI in real life
- **Introduced sessions on self-learning to students in events**
    - Introduced session to first year students in Human Library event
- **Mentored Team Sudan for FIRST Global Challenge 2019**
    - Established a team of 7 people
    - Supervised 5 students to make a robot
    - Raised funds for the journey
    - Won the outstanding mentor award

Freelancing Commercial Projects

- **Peace Bridge Organization System - *C# .NET Framework***
  - o Management system for an organization, features fully system management for the organization.

- **Dr. Nazar Clinic - *C# .NET Framework, SQL Server***
  - **o** Clinic management system, features patient, visits, operation and finance management.
- **Hirfa Website - *HTML, CSS, Javascript, Bootstrap***
  - o A company profile website
- **Raied.net Website - *C# .NET Core, HTML, CSS, Javascript, Bootstrap***
  - o Company profile
  - o Registration system
- **Strela-sd.com Website - *HTML, CSS, Javascript, Bootstrap***
  - o Company profile
- **CRM System for Monjid - *Node.js, Angular***
  - o Staff management
  - o Order receiving
  - o Report handling
  - o Monthly checks reminders
  - o SMS integration
- **Home Care System - *Nodejs and Svelte***
  - o Statistics
  - o Order management
  - o Staff management
  - o Users management
  - o Complicated Product Management
  - o Delivery Zones
  - o Coupons
  - o Complicated Pricing management
- **Order Page - *Flutter***
  - o User authentication
  - o User management
  - o Products
  - o Ordering

Open Source Projects

- **flutterver**

  https://github.com/browntechnology/flutterver

  Flutter Versioning: A command line tool to manage Flutter projects versioning.

- **DockSSH**

  https://github.com/ahmedwadod/dockssh

  Dockssh, ssh into any container from anywhere with the help of redis for password storage.

- **NodeJS Docker Tutorial**

  https://github.com/ahmedwadod/nodejs_docker_tutorial

  A NodeJs and Docker tutorial I wrote for DEV.to community

- **mailhub**

  https://github.com/ahmedwadod/mailhub

  A simple web API to send emails from a specified SMTP email to a specified email.

Job Experiences

- **Senior Software Developer 2018 – 2019 at Maglag.com**
  - Designed management web application
  - Administered servers
  - Developed mobile apps
  - Trained interns
- **Founder 2019 – 2020 at Josh Hosting**
  - Developed a custom Virtual Private Servers management API
  - Designed a website
  - Created a management system
  - Handled customer relations
- **Mobile Developer 2020 – 2021 at Blueprint Technology**
  - Developed an e-commerce customer app with Flutter
  - Developed deliveryman's app with Flutter
  - Implemented Firebase services like FCM and Crashlytics
  - Worked on debugging and testing several Flutter apps
  - Developed real-time functionality with SignalR and .NET Core
- **DevOps Engineer 2021 - 2022 at Brown Technology**
  - Administered Linux servers
  - Administered Kubernetes deployments
  - Managed the deployment of .NET Core web apps
  - Deployed Docker containers
  - Developed CI/CD pipelines
- **Full-stack Developer 2022 - 2023 at Brown Technology**
  - Developed Mobile Apps with Flutter
  - Worked on backend projects with Flutter
- **DevOps Engineer 2023 - 2023 at iGate KSA**
  - Managed Github Repositories
  - Managed Deployment CI/CD
  - Managed Environments
  - Deployed services
  - Automated processes

Certifications and Awards

- FIRST Global Challenge 2019 – Dubai, UAE – Outstanding Mentor Award
- FIRST Global Challenge 2019 – Dubai, UAE – Certificate of Excellence
- FIRST Global Challenge 2017 – Washington D.C , USA – Certificate of Excellence
- SUST AINsoc – Projects competition 2017 – First place award
- National Youth Competition 2013 – Computer section – First place award