Mahmoud Adas

Software Engineer - Egypt

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Education

Cairo University, Faculty of Engineering | Egypt

Sep 2015 - Jul 2021

B.S. in Computer Engineering

Tools

- C, C++, Go, Python, Java, Rust
- Qt/QML, React, Spring, Android
- SQLite, Docker, Linux

Experience

C++ Software Engineer

Jun 2021 - Mar 2022, Jun 2023 - Now

Atomica.ai (360Imaging) - Dokki, Egypt

- Currently developing frontend for new dental CAD application
- Joined teams: [internal tooling, launcher, clients, new CAD]
- Contributed to the launcher app, the **installer** of the whole suite of products
- Developed multiple internal C++ libraries
- Developed GUI tool to modify product cloud data
- Developed SQLite-C++ boilerplate generators
- Contributed to internal core libraries used across the company
- Maintained frontend of planner & segmentations apps

Software Engineering Intern · Cert

Jul - Sep 2020

Solectra - El Gouna, Egypt

- Maintained an embedded system that collects and analyses data from electric vehicles to report trips, total revenue,
- Fixed several bugs, improved performance and prediction correctness, and added various tests

Projects

Jan - Mar 2022 360Launcher

Qt/QML/C++ app to install/update/launch main products and integrate with them

Library Editor Sep - Dec 2021

- C++ (+ImGui) internal tool to modify/upload versioned metadata and information
- Helps product managers update domain-specific logic without new app release

DPSX-Sync Jun - Aug 2021

- Qt/QML/C++ experimental Dropbox-like app to add sync and collaboration features
- Uses libgit and Gitea server for versioning and synchronization

C4IAN (Graduation Project) · Repo

Apex · Backend · Frontend · Android · Testing

Feb - Jul 2021

- Tactical Mobile ad-hoc network. Supports video/audio streaming and messaging
- ZHLS+ZID unicast, ODMRP multicast, and geo-based broadcast
- Golang router that integrates with the Linux network stack

Nov 2021 - Present OpenYSF · Repo

A <u>ysflight</u> flight simulator clone, for learning and fun. Backward compatible with ysflight assets

Jan - Mar 2019

• Reddit clone, for web and android. Took role of **Devops** in team of 18

• Used Travis-CI for CI/CD, GoogleCloud, Docker, DockerCompose, and Datadog for monitoring

Koos · Repo · Rust Rewrite Jun 2019

- Decentralized social media app, built on Fluence. AssemblyScript/Rust for server, React for frontend
- Won a Gitcoin bounty for the best app that uses Fluence's technology

Mini-Search-Engine · Repo

Feb - Mar 2020

Text and image search with trends detection. Used Java Spring and React

Match Reservation System · Repo

Jan - Feb 2021

Web application for Egyptian Premier League for seats reservation. Used MongoDB, Nodejs and React

NesEmu · Repo

2019 - Present

NES console emulator in C++. Hobby project

Cartoonization · Repo

Oct - Dec 2019

- Snapchat Clone written in Python draws stickers on live recordings of faces
- Implemented GUI, rendering stickers, and HOG algorithm
- Used Viola-jones/Hog to detect faces, and multiple **image processing** techniques to filter the input

RetroSoccer · Repo Jan - Mar 2019

Multiplayer soccer game entirely in x86 IA32 MASM assembly with chat (serial communication)

Simple PDP--11 · Repo

Oct - Dec 2019

- Design and simulation of a CPU architecture similar to PDP--11 in VHDL and Vunit for test benches
- Designed and implemented automated tests for the CPU

TheMistake · Repo Jan - Mar 2019

- Maze solver car using flood fill algorithm on <u>TIVA-C μc</u>/Arduino-Uno with ultrasonic and IR sensors
- Implemented maze-solving and tested it

Paint-For-Kids · Repo Jan - Mar 2017

C++ GUI application for kids to draw and play with shapes, with two game modes. OOP school project

Outbreak · Repo Jun 2018

Java/libgdx clone of the classic game "Outbreak"

InventoryApp · Repo Jun 2018

Android CRUD app to keep track of inventory items in a store