

Sultan Alahmadi

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EXPERIENCE

DIVE POINT | SOFTWARE ENGINEERING INTERN
May 2020 – August 2020 | Jeddah, KSA

- Improved automated invoicing operations
- Optimized database queries for more efficient and fast operation.
- Enhanced database indexing practices
- Built an internal help desk ticketing portal

PROJECTS

CRYPTOBOOK | JAVASCRIPT, REACT NATIVE, FIREBASE
2022 - present

- An application that provides the ability to find crypto-currency wallet addresses of people and businesses, with a verification system and search ability.
- Built using react-native to work on multiple platforms (IOS, Android, Web)
- Uses Firebase Firestore as a cloud database
- Integrated authentication with Google, Facebook, and Apple
- Implemented Redux to increase efficiency of front-end and improve state-management

TRAVELSAFE | JAVASCRIPT, REACT, NODE.JS, MYSQL
2022

- A website that makes planning travel during the COVID pandemic easier, by providing an all in one place to check guidelines and requirements of airlines and countries
- Built a Node.js server that connects the front-end with MySQL database
- Designed ERDs and schemas for the database.
- Established the ability to modify the database (add, delete, retrieve, update) from the front-end

JUNGLE | JAVASCRIPT, REACT NATIVE, NODEJS, MONGODB
2021

- App that makes finding events on campus easier using a tinder style swiping
- Implemented MongoDB database, Amazon S3 Bucket, and Node.js backend for the app which are all fully deployed online
- Implemented the frontend using React Native, and plan on adding state management using Redux
- Other features include recommendations using ML, chatting, and authorization using JWT, Facebook, and Google

UNIX SHELL | C, C++, LEX, YACC
2020

- Full UNIX shell implementation written in C and C++.
- Builtin functions, subshells, wildcarding, command expansion, and complex command parser using Lex/Yacc

MY MALLOC | C
2020

- A full implementation of a memory allocator written in C
- Complete implementation of functions such as malloc, free, and calloc

SKILLS

PROGRAMMING

Proficient:
C • Python • Java • Shell
Scripting • SQL

Experienced:
JavaScript • C++ • CSS

Familiar:
Assembly x86 • HTML

LIBRARIES/Frameworks

React Native • Node.js •
Next.js • React • Three.js
• MySQL

TOOLS/PLATFORMS

Git • Firebase • MongoDB
• UNIX

EDUCATION

PURDUE UNIVERSITY

BACHELOR'S IN COMPUTER SCIENCE
Jan 2019 - May 2023 | West Lafayette, IN
Concentration:
Software Engineering
Minor: Psychology

COURSEWORK

UNDERGRADUATE

- Programming in C
- Computer Architecture
- Data Structures & Algorithms
- Systems Programming
- Software Engineering
- Software Testing
- O-O Programming
- Analysis of Algorithms
- Operating Systems
- Information Systems