

ABDOU KHADRE SENE

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EDUCATION

- **Salem State University, Salem, MA** **Bachelor of Science** in Computer Science, Spring 2019
 - Concentration in Software Engineering

RELATED COURSEWORK

- | Computer Network & Security Engineering | Software Design/Programming I & II | Database Management Systems | Software Engineering I & II | OS & Principles | Data Structures & Algorithms | Computer Networks and Security | Object Orientation and Problem-Solving Strategies | Digital Circuit Design | Computer Architecture & Organization | Relational Database Management |

EXPERIENCE

CDX Analytics Laboratory, Salem, MA

February 2020 to April 2020 (Due to Covid-19)

IT/Communication Intern

Salem, MA

- Database, web, application design & maintenance.
- Assist in maintenance and upgrading the IT infrastructure of the office.
- Solving Technology issues within the office and laboratory.
- Developing and optimizing applications to help make the job of the Scientists performing tests easier.
- Aided in the development of the Analysis Request App and Results Database Application

Distaff

June 2021 – Present

iOS Developer Intern

Boston, MA

- Collaborating with leadership and key partners on a regular basis with other engineers to build, optimize and maintain the CI/CD system
- Creating the best possible developer experience for mobile engineers by ensuring our tools are effective, efficient and easy to use. Develop telemetry and alerting for opportunities to improve build infrastructure and tooling, and execute on them
- Identify code refactor and modularization opportunities to improve build efficiency

SOFTWARE SKILLS AND INTERESTS

- **Software Skills:** Java | JavaScript | Swift | Django | API | Python | PHP | SQL (MySQL) | C++ | JSON | Wireshark | Software Testing | CocoaPods | FirebaseSDK | VSCode | IntelliJ | Kotlin | Database Design
- **Technologies/Environment:** AWS | Windows | Linux | Terminal | MS Office | OSX | IOS | VMware

PROJECTS

Distaff Django Rest API & iOS application

- In charge of migrating the Django REST API onto an Amazon Web Services EC2 instance. Linked the server with a RDS instance as the database, then imported the schema through a script. Proceeded to install Gunicorn to help the API run on the server then Nginx to make the app accessible from the public IP (Restarts the API if it shuts down).
- Completely rewrote portions of the python sign-in on the server, fixing all the problems with email registration and email verification. Proceeded to submit the app to be updated through AppConnect.
- Currently working on building an android version of the Distaff iOS native application.

JukeByte: IOS app (2018 - 2019): Capstone Project

- Jukebox style IOS app. Contains music on a server with PHP scripts for the app to communicate with to display, update and play songs. Information about the songs including likes and plays is stored on a database (phpMyAdmin).
- Using Swift and Xcode, the app retrieves the list of songs, then *plays* and *pauses* at request.

Analysis Request App (2020): FileMaker Pro: CDX Laboratory IT

- This application is designed to replace older inefficient model. Customers could log in and put in the number of samples they want tested. Depending on what's being tested a certain amount of information required. Each user can only see their orders and order history.
- After the requested is submitted, an email is sent to the company and it's pushed in the Lab Request portal

CDX Results Database Application (2020): FileMaker Pro: CDX Laboratory IT

- The application used to organize all the results of the laboratory tests and make any conversion needed when raw data is entered.
- Displays the data in different formats to make it easier to understand the results.
- With a couple clicks the raw data can be converted into documents needed to send to the government or customers.

REFERENCES

Bo Hatfield: bhatfield@salemstate.edu, former Database professor 978 542-6979

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