Abdel Shokair

abdelshokair@gmail.com abdelshokair.tech +1-917-938-6889

EDUCATION

Fordham University September 2017 - May 2019
Master of Science in **Computer Science**

Fullstack Academy December 2016- April 2017
Software Engineering Student

New York University September 2012 - May 2016
Bachelor of Arts in **Economics & Political Science**

PROFESSIONAL EXPERIENCE

Silo Inc. - Consumer IoT **New York, United States**
Lead Software Engineer September 2019 - Present

- Lead the complete web and mobile implementation of the enterprise platform for Silo, a New York and Hong Kong-based IoT startup that produces connected security hardware
- Independently design and implement the React-Redux based front-end of Silo's platform by leveraging Material UI, Storybook for UI testing, and Styled-Components for the creation of a customized core component library used across multiple web and mobile applications
- Responsible for the creation of RESTful APIs and the architecture of the Firebase serverless back-end, using Cloud Functions, Firebase Authentication, Google Firestore as a NoSQL database, and AWS IoT core for secure communication between devices and the micro-services deployed in the cloud environment

Talent Space - Recruiting Platform **Berlin, Germany**
Full Stack Software Engineer June 2018 - May 2019

- Worked in an agile environment to create the responsive web application for Talent Space, a career accelerator that pairs early-stage professionals with tech companies in Europe
- Collaborated closely with designers and the CTO to implement the React front-end of the website, using Storybook for UI testing, and Styled-Components for the creation of a custom component library
- Leveraged the Serverless framework on the back-end, using AWS Cognito for user management, the Twilio API for secure communication between companies and potential job seekers, DynamoDB as a NoSQL database, and AWS Lambda alongside API Gateway for the development and design of scalable REST APIs that meet system requirements

ENGINEERING PROJECTS

Covid Wire News 14-persons project
https://www.covidwire.news

- Lead a remote team of 6 engineers, 4 designers, and 4 editors ithrough the ideation, design, and creation of Covid Wire, a news platform that aggregates daily articles from 500+ news sources, health organizations, and research institutes around the United States, leveraging NLP NER models to extract geographical entities from each article, and using the Google Maps API to map each article to a series of longitudes and latitudes and a series of FIPS / US county codes in order to provide hyper localized news about COVID-19 to our users
- Design and deploy the back-end system on the Google Cloud Platform, including that of the REST APIs deployed as Google App Engine instances and the PostgreSQL database extended by PostGIS for geospatial queries.
- Oversee the creation and iterative improvement of our news and research article crawler, deployed on Digital Ocean, and the NER and Geo-encoding scripts deployed on Google Compute Engine
- On the front-end, collaborate with designers to create the public news feed and the private moderation platform, which allows our moderators to approve and reject crawled articles, filter them by scope (local, national, global), by state, and to edit the locations associated to each article. Google Maps API is used to help moderators visualize spatially which locations articles are associated to and ensure that users get a feed of articles relevant to them. Articles retrieved are based on the user's exact coordinates and current county. Powered by React, Redux, and Styled-Components

BASH 1-person project
https://www.npmjs.com/package/lmfao

- Node.js and Google Firebase powered NPM package that leverages web sockets to allow users to authenticate and chat with their friends and coworkers through their computer terminal on self-created public and password-protected private channels that can each handle a maximum of 1,000 concurrent connections

Politics Ajar 4-persons project
https://github.com/robschroeder333/Politics-AJAR

- Application that combines the ProPublica and MapLight APIs to analyze the voting history of members of congress and the type of organizations lobbying for the passage of each individual bills to infer the stance of each member of parliament on a set of political issues, such as foreign policy or environmental conservation, in order to allow American voters to determine their most compatible representatives
- Powered by React.js, Node.js, Sequelize, Express, PostgreSQL, and D3.js for data visualization

SKILLS, LANGUAGES & INTERESTS

Proficient: Javascript, React, Redux, Node.js, Express, AWS, Firebase, Git
Knowledgeable: Python, PostgreSQL, MySQL, Mocha, Chai, Jasmine
Languages: English (Fluent), French (Native), Arabic (Native), Spanish (Fluent)
Interests: Philosophy, art history, musical composition, skateboarding, entrepreneurship, foreign affairs