

Hassan El Mghari

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EDUCATION

DREXEL UNIVERSITY

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

SEPTEMBER 2016 – JUNE 2021

PHILADELPHIA, PA

- GPA: 3.69
- **Relevant Courses:** Data Structures, Computer Architecture, Advanced Programming, Pattern Recognition

EXPERIENCE

SOFTWARE ENGINEER INTERN

APRIL 2020 – JUNE 2020

SLEEK

SAN FRANCISCO, CA

- Implemented key features including search & payment authentication in food ordering app using React, Redux and Node.js
- Improved speed of dashboard app by 63% through unit tests, refactoring code & removing unnecessary dependencies
- Developed GraphQL API with a schema & AWS Lambda functions to interface with DynamoDB

FOUNDER & CEO

OCTOBER 2015 – JANUARY 2020

ULTRASHOCK GAMING LLC (ACQUIRED)

PHILADELPHIA, PA

- Built a Steam community of 500,000 gamers, social media of 150,000, and email newsletter of 135,000 subscribers
- Negotiated and signed 15+ royalty-based contracts with individual developers and game studios
- Successfully [exited](#) by selling the startup to two other gaming companies

PROJECTS

DEEP VEIN THROMBOSIS PREVENTION DEVICE (PATENT PENDING) | PYTHON, TENSORFLOW, FLASK

- Created a wearable and portable smart actuation device for DVT risk mitigation, along with 3 teammates
- Made & trained a machine learning model to classify movements based on an accelerometer with 92% accuracy
- Developed a web server to communicate with our microcontroller and store info in an SQLite Database

PMSOX | REACT, FIREBASE (FIRESTORE, AUTHENTICATION)

- Built a [client dashboard](#) using React, Firebase & Material UI for a fintech startup
- Developed a [landing page](#) using React and Material UI with animations and dark mode

COVID CLASSIFIER | PYTHON, KERAS, SKLEARN

- Built a classifier that takes in CT images of patients and can determine, with 85% accuracy, if the subject has COVID-19
- Used a k nearest neighbor algorithm that after hyper tuning, achieved 85% classification accuracy

ALI ABDAAL SEARCH ENGINE | PYTHON, REACT, POSTGRES

- Designed & implemented a search engine to be able to search phrases and find the videos where they were said
- Involved web scraping, downloading videos, transcribing them, using a database to store data, and building a frontend

SKILLS

- **General Programming:** Python, C, Git/GitHub, MATLAB
- **Front-end:** React, JavaScript, HTML, CSS, Material UI
- **Back-end:** Node.js, AWS (Amplify, Lambda, DynamoDB), Firebase, Postgres

AWARDS & CERTIFICATIONS

- Moderator of the largest online React.js community with over 250,000 members, [/r/reactjs](#)
- [Philadelphia City 6](#) Drexel Volleyball Champion for the first time in school's history
- [Professional Scrum Master I certification](#)