

Shobair Abidi, EIT

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Professional Summary

Developer and Machine Learning Enthusiast with experience using JavaScript, HTML, CSS, SQL, API's, and Python along with many, many other libraries and technologies. Experience working with Time Series, Tensorflow-Keras, NLTK, Spark and Dask. I'm also very good with visualizations and reports, communicating errors and findings, and taking ownership of my work where I always give it my all! After some years struggling to progress my career in Engineering, I pursued furthering my education and shifting my career towards Computer Science, to expand on some skills and experience I already accrued in the past.

Proficiencies

- **Development Technologies:** HTML, CSS, JavaScript, JQuery, API's, Node.js
 - **CSS Frameworks:** Bootstrap, Materialize
 - **JavaScript Libraries:** Inquirer
 - **Machine Learning Skills:** Python, SQL, API's, Machine Learning - Supervised & Unsupervised, Data Cleaning, Feature Engineering, Microsoft Office, Tableau, VBA
 - **Python Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scipy, Scikit-Learn, Statsmodels, Tensorflow/Keras, Spacy, NLTK, Gensim, pyramid-ARIMA
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Projects

- **What's Streamin'** 07/2021 - 08/2021
 - o [HTML, CSS, Materialize.css, Javascript, JQuery]
 - o The main purpose of this project is to create a dynamic, polished application that fulfills the criteria for not only using, but integrating two related API in a meaningful way that can provide potential use to a user. The application queries one API for movies based on a search term while the other retrieves information and links regarding where those movies can be watched online.
- **Predicting Midcap Stock Values for Short-Term Trading** 06/2020 - 01/2021
 - o The main purpose of this research project is to create a Stock-prediction application to be used as a day-trading application to support investment decisions for beginners. The final, intended use-case for this model would be an optimized, automated, investor that would be able to perform multiple 'smart' decisions on trading. Once model integrity is established with a goal performance of 15% portfolio growth (average market return for both the S&P500 and Dow Jones Industrial Average in 2019)(Note: the projected market return for 2020 is around 6-10% , and the running 10-year average stays around 10-12%). The model will also keep a live, ranked list of top stocks to invest in as an additional output for investors that may not be comfortable using algorithmic trading.

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Education

University of Pennsylvania / - Philadelphia, PA

- **Full Stack Flex Developer**

05/2021 - Present

- o Lay a strong foundation in coding through learning the fundamental concepts of web development: HTML5, CSS3, JavaScript, jQuery, command line, API consumption and much more.
- o Learn how to engineer full stack applications, write Node.js server code, MySQL, and connect back end technologies with the front end.
- o Acquire the skills to optimize web applications for speed and efficiency: NoSQL databases, progressive web applications (PWAs), single-page applications with React.
- o Create scalable web apps, APIs, and services.
- o Dive into core Java and object oriented programming.
- o Simulate a professional work environment by teaming up with your peers and put your new skills into practice on complex projects.
- o Receive a Certificate of Completion from Penn LPS, demonstrating your achievements.
- o Gain an edge in the field through our comprehensive career services, such as technical interview preparation, resume and social media support, portfolio reviews, coaching, soft skills training, and more to help launch or advance your career.

Thinkful/Bloc - Philadelphia, PA

- **Data Science Immersion**

02/2020 - 07/2020

- o This Program was an incredibly rigorous program, requiring a time-commitment of at least fifty hours each week for five months, where we got introduced to the basic theorems and statistics behind machine learning, and unlike other programs we also explored and implemented the practical application of the concepts we learned through projects.

Widener University - Chester, PA

- **Bachelor's Degree in Mechanical Engineering**

09/2013

- o **Senior Design Project** – “ASME Design Competition - Remote Inspection Device”
 - Leading member for electrical design and controls systems, involving Arduino's open source platform. The main objective was to create the control and motion algorithms in **Python**. In addition to the omni-directional wheels, the device also included a basic robotic arm for the device to complete simple tasks.
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Professional Experience

Parcelist

- **Engineering & Machine Learning Consultant** 04/2021 - Present
 - o My primary purpose working with this startup can be broken into a few subcategories: Technical, Engineering, Management. I created and developed a Maintenance plan for the locker systems, deployment application for the computer vision model used for parcel sizing, evaluated the existing hardware to determine most likely points of failure and improvements that could be made. I've also managed the interns and part-time employees to keep the company on track for it's highest priorities in scaling. On that note, the primary focus for me is to guide the company to a point where the implemented system is scalable.

Fortna Inc.

- **Systems QA Engineer II** 01/2018 - 10/2019
 - o The responsibilities for this position are to analyze multiple aspects of conveyor systems, then developing and going on site to execute the test plans. I Have delivered and shown high levels of ownership while delivering the final system to the client. Over time I've also participated in multiple levels of client engagement and directed multiple streams of workflow throughout large projects to optimize the progression of the project ahead of building go-live while managing and coordinating multiple on-site efforts with all testing related activities.
- **Systems QA Engineer I** 02/2016 - 12/2017
 - o Learned the relevant systems and suppliers for the equipment used and software implemented in the projects. I learned and executed the basic functions of my position while learning the requirements to step up into greater leadership positions, including stepping into a Leadership role for complete system integration testing for a large client, while maintaining charge of the smaller processes to assure our teams could adhere to a strict schedule and coordination requirements.

Schweitzer Engineering Laboratories

- **Engineering Intern / Test Engineer (R&D Office)** 06/2009 – 08/2012 | 08/2013 - 05/2014
 - o Responsibilities included the formulation and execution of Relay Functionality Tests, Integration Tests, and Regression Tests. In addition to the tasks I was responsible for, I also worked on optimizing the testing, data analysis, and calculating procedures by writing scripts and macros.
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