# Shahaf Dan

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## EDUCATION

**[Boston University](#), College of Computational and Data Science**              September 2020 - August 2022

- BA in **Computer Science**
  - Machine Learning, Data Science, Theory of Computation, Probability, Analysis of Algorithms, NLP, Software Engineering.
  - Capstone Project: NLP over Twitter Streaming Data. Used Python's SpaCy library to analyze and detect hashtag trends from Twitter streaming data, fetched using Apache Spark.

**[Las Positas College](#)** (Dean's List, Highest Honor)              June 2018 - May 2020

- AS Computer Science,  AA Computer Studies, AS Physics,  AA Applied Mathematics.
  - **Honors Certificate** - conducted 6 faculty-approved research projects
  - C++, PHP, Assembly, Data Structures, Computer Architecture, Databases, Calculus & Differential Equation, Linear Algebra.
  - Capstone Project: The Market Manager. Designed full stack software to automate the registration, volunteering, and inventory tracking of the market - a monthly grocery distribution event (SQL, PHP, JavaScript, HTML, CSS, AJAX, PDO).

**[MIT Professional Education](#)**              September 2022 - December 2022

- Certificate, **Applied Data Science Program**
  - Neural Networks, CNNs, Regression / Classification / Clustering, Recommender Systems, TensorFlow, Keras, SciKit-Learn.

**[Coursera (IBM Offered)](#)**              September 2022 - November 2022

- Certificate, **AI Engineering**
  - Neural Networks, Deep Learning, Image Recognition, Computer Vision, OpenCV, PyTorch, Artificial Intelligence.

## WORK EXPERIENCE

**AlgoTrade** | Remote              June 2022 - Present

*Data & Machine Learning Engineer*

- Developed Python software to pull mass stocks and options streaming data from Interactive Brokers API via Apache Spark.
- Designed a Deep Learning model to predict best-option bundle purchase choices by trial-and-error.
- Developed an interactive front-end providing the client-user bundle building strategy construction abilities.

**[Spark!](#) at Boston University** | Boston, MA              January 2021 - May 2022

*Data Science & Software Engineer Intern*

- Structured data ETL pipelines to map multi-sourced data (APIs, DBs) into an accessible and unified structure.
- Designed ML learning models to predict results, recognize patterns, and generate business insights from mass data.
- Designed and developed a full stack web application for the company's student portal.

**[SkillWaze](#)** | San Ramon, *CA*              June 2019 - August 2019

*Backend Software Engineer Intern*

- Structured a data pipeline to integrate survey responses into Entity-Relational MySQL database model using JDBC.
- Worked on the company's software service's back-end using Java and SQL queries.

**[Amber System Technologies](#)** | Plesanton, *CA*              September 2018 - April 2019

*Full Stack Software Engineer Intern*

- Integrated a web-application with Point-Of-Solution system databases to provide online purchase capabilities..
- Developed application templates based on client-specified needs using HTML, CSS, JS, AJAX, jQuery, and various libraries.
- Designed PHP data-query SQL scripts using the PDO protocol to manipulate and analyze mass data.