

13645 Exotica Lane
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Jesus Lares

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EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Expected Graduation Date: June 2022

Candidate for Bachelor of Science in Computer Science and Physics with a minor in Economics

Cambridge, MA

GPA: **4.80/5.00**

Relevant Coursework: Intro to Machine Learning, Intro to Computational Thinking and Data Science, Intro to Algorithms, Intro to Probability, Intro to Quantum Computing, Classical Mechanics II, Electricity and Magnetism II, Relativity, Differential Equations

SUNCOAST HIGH SCHOOL

August 2014 – May 2018

Math Science and Engineering Program – International Baccalaureate Diploma Programme

Riviera Beach, FL

HPA: **5.35/4.00**

PALM BEACH STATE COLLEGE, FLORIDA ATLANTIC UNIVERSITY:

Relevant Coursework: Introduction to Cryptography, Calculus III, Calculus II, Linear Algebra, Discrete Mathematics

Lakeworth, FL

GPA: **4.00/4.00**

EXPERIENCE

NORTHROP GRUMMAN MISSION SYSTEMS

Machine Learning Intern

Washington, D.C.

May 2019 – present

- Designed and implemented **key ML algorithms** to intercept and analyze signals intelligence.
- Developed a **streaming** and **scaling** framework for algorithm training and model **deployment** in a Linux cluster.
- Presented **system** and **algorithmic architecture** to customers and led a **trade study** for ML implementation.

MIT CONSULTING GROUP

Consultant

Cambridge, MA

Sept 2018 – present

- Consulted for two technology companies in the software and IT sectors.
- Created a **decision model**, and instigated a **market study** on, open and closed source business models.
- Interviewed **industry leaders** and drafted a SAAS **price model** for a **\$33B** company's new service.

COMPUTATIOAL REACTOR PHYSICS GROUP

Software Engineer

Cambridge, MA

Jan 2019 – present

- Helped create analytical methods to solve **the Neutron Transport Equation** for arbitrary reactor geometries.
- Developed integration and unit tests for all newly implemented features to increase test suite coverage.

QTHERMO

Founder and Developer

Cambridge, MA

May 2017 – present

- Developed a **simulation software** for atomic interactions in two dimensions.

SPACE PROPULSION LABORATORY

Student Researcher

Cambridge, MA

Aug 2018 – Jan 2019

- Designed and built a **vacuum chamber** for fitting a propulsion unit to a rig simulating launch conditions.

LEADERSHIP

MIT CLASS COUNCIL

Treasurer

Cambridge, MA

Oct 2018 - present

- Drafted and maintained a **\$20k** budget, financing events, overseeing compensations and the distribution of funds.
- Organized and reserved a movie theater for a class outing, and planned a class get together.

STUDENT GOVERNMENT ASSOCIATION

Student Body President

Riviera Beach, FL

Sep 2015 – Jun 2018

- Designed and coordinated an official schoolwide walkout as a part of the National Walk for Our Lives movement. Organized news coverage, voting registration, and keynote speakers for over **2000 students**.
- Planned and executed Suncoast High School's 2018 Homecoming for **700 students**. Managed a fund of over **\$40k** and distributed it among venues, catering, security, and other personnel – while turning a profit.
- Organized and led Suncoast's SGA summer retreat; located at Florida Atlantic University and spanning a weekend.

Languages: Python, Java, Bash, Batch, Mathematica, SQL, MATLAB, HTML, CSS, C++ | English, Spanish, French

Skills: Keras, H2o.ai, MXNet, Tensorflow, DL4J, SparkML/Spark, Kafka, Docker, Kubernetes, Maven, Hadoop, KSQL, InfluxDB, Grafana, Agile Development, GIT, Windows, Unix, Latex, Jekyll, Matplotlib, Numpy, PyGame, PyOpenGL