# **Daniel Melchor**

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#### **EDUCATION**

Boston University Boston, MA

Computer Science, B.A.

September 2020 - May 2024

- Computer Science GPA: 3.73/4.00
- Honors & Awards: Deans List (all semesters), Upsilon Pi Epsilon (Computer Science Academic Honor Society)
- Relevant Courses: Probability in Computing, Computer Systems, Geometric Algorithms, Combinatoric Structures, Introduction to Analysis of Algorithms, Introduction to Information Security

## **EXPERIENCE**

# Software Engineer, Intellygenz

June 2021 - August 2021

- Developed and fine-tuned a machine learning model from pre-trained neural networks to extract relevant entities from a Business Telecom company's support ticket emails
- Analyzed model's performance against current existing public solutions and found a 4x improvement in accuracy
- Created extensive documentation to define model's behavior
- Supervised models training, testing, and validation of 60,000+ emails

# Independent Writer, Towards Data Science

July 2021 - Present

• Wrote articles about different aspects of Machine Learning to help beginners avoid common problems for a publication with 500,000+ readers

## **PROJECTS**

## BU Nexus - Project Leader (team of 5)

February 2021 - Present

- Led development of an application created to improve and add several features to Boston University's current registration tool used by more than thirty thousand students
- Developed a custom Rest API with Node.JS to manage course data, users, and statistics
- Designed a schedule generation algorithm in Python capable of recommending users a set of courses according to past classes, current major, section hours, prerequisites, and additional customizable parameters
- Implemented and maintained a working user database, data collection system, and authentication mechanism

## Decentrapass - Founder, Project Leader (team of 3)

April 2021 - August 2021

- Founded an open-source decentralized protocol for securely storing passwords inside Ethereum's network
- Built a website, browser extension, and web app using web3.js, Solidity, React, HTML/CSS, and other languages
- Collaborated with open-source developers to organize and secure smart contracts

# Personal Website - Creator

June 2021 - August 2021

- Built a website with HTML/CSS and React to showcase my best projects to the world
- Implemented a blog where I post about my life, topics I find interesting, and machine learning articles
- Had 3,000+ different readers on blog posts/articles

## **TECHNICAL SKILLS**

**Proficient:** Python (Django, Pytorch), Javascript (React, Node.JS), Java, SQL (MySQL, PostgreSQL), HTML/CSS, Git, Rest APIs **Familiar:** C, C++, Gatsby, LaTeX, TensorFlow, Docker, PHP, web3.js, Solidity

Languages: Spanish (native), English (full professional proficiency), French (limited working proficiency)

## OTHER INFORMATION

**Current interests:** blockchain, chess, effective altruism, rock climbing, computer science, financial independence **Random topics we can talk about:** American college experience, wilderness canoe trips, cryptocurrencies, politics