Daniel Melchor

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EDUCATION

Boston University

Computer Science, B.A.   *September 2020 - May 2024*

- Computer Science GPA: 3.73/4.00
- Honors & Awards: Dean's 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 BERT neural network 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 about model to improve code maintainability
- Supervised model's training, testing, and validation of 60,000+ emails

Independent Writer, *Towards Data Science*   *July 2021 - Present*

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

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 30,000+ 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*

- Launched an open-source decentralized application 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, TailwindCSS, and React to showcase my best projects
- Implemented a blog where I post about my life, topics I find interesting, and machine learning articles
- 3,000+ unique visitors 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

OTHER INFORMATION

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

Current interests: blockchain, chess, rock climbing, computer science, effective altruism, process automation, cryptocurrencies, web development