Daniel Melchor

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EXPERIENCE

Stripe   May 2022 - August 2022
Software Engineering Intern - Payments Dashboard Team   *South San Francisco, CA*
- Built an end-to-end data product to surface customer analytics for 4B+ customers to enable SaaS-related workflows in the Stripe Dashboard with a reach of 460k MAU
- Wrote product and technical specification from feedback and UXR to tackle top ask from companies like Whimsical
- Reduced customer dashboard latency from 346ms to 19ms (95% improvement) by adding inverted index to Pinot
- Evaluated technical and design tradeoffs with Product Management, Design, and partner engineer teams
- Updated Pinot Schema and API response on Customer Object serving over 20k API requests per day
- Stack: Scala, Ruby, TypeScript, Apache Spark, Apache Airflow, Apache Pinot, React

BastionZero   February 2022 - May 2022
Software Engineering Intern - Core Infrastructure & API   *Boston, MA*
- Allowed customers to interactively request and grant access to infrastructure targets through an API
- Streamlined the customer onboarding process with API through Slack App channel integration
- Ensured integrity of new system through cryptographic processes like signature verification and JWTs
- Stack: Node.js, TypeScript, C#, ASP.NET Core

Intellygenz   June 2021 - August 2021
Software Engineering Intern - Machine Learning Team   *Madrid, Spain*
- Increased accuracy from 14% to 59% by developing and fine-tuning ML model from pre-trained BERT to extract entities from business telecom emails
- Supervised model's training, testing, and validation of 60,000+ emails
- Stack: Python, PyTorch, NumPy, Pandas, Scikit-learn

Towards Data Science   July 2021 - September 2021
Independent Writer   *Remote*
- Wrote articles for a publication with 500,000+ readers about different aspects of Machine Learning

PROJECTS

BU Nexus - Project Leader (team of 5)   February 2021 - December 2021
- Led development of application to renovate Boston University's current registration tool used by 30,000+ students
- Developed Rest API with Node.JS to manage course data, users, and statistics
- Recommend courses based on past classes, major, prerequisites, and more through a schedule generation algorithm

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 website, browser extension, and web app using web3.js, Solidity, React, and TypeScript
- Organized and secured smart contracts by collaborating with open-source developers

EDUCATION

Boston University
Computer Science, B.A.   *September 2020 - May 2023*
- Computer Science GPA: 3.72/4.00
- Honors & Awards: Dean's List (all semesters), Upsilon Pi Epsilon (Computer Science Academic Honor Society)

SKILLS

Programming languages: JavaScript, TypeScript, Python, Ruby, Scala, SQL, HTML, CSS, C#, C++, C
Tools & Technologies: React, Node.JS, Git, Bash, Redux, SCSS, Jest, AWS, Apache Spark, Apache Airflow, MongoDB

OTHER INFORMATION

Languages: Spanish (native), English (full professional proficiency), French (limited working proficiency)
Current interests: blockchain, chess, effective altruism, process automation, cryptocurrencies, martial arts