Johan Cervantes

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Education

Massachusetts Institute of Technology, Cambridge, MA

Sept 2017 - June 2021

B.S. Computer Science, Statistics & Data Science Minor

Coursework: Artificial Intelligence, Distributed Systems, Machine Learning, Elements of Software Construction, Computational Cognitive Science, Computer System Engineering, Gordon-MIT Engineering Leadership Program **Skills**: Distributed systems, database schema design, ReactJS, NodeJs, Express, service deployment & monitoring, ML training / fine-tuning, Tensorflow, PyTorch, C++, Go, Python, Java

Experience

Google, New York, NY

August 2021- Present

Software Engineer L4 - Geo

- Improved Google Maps' modeling of the world by researching real-world semantics and forming a unified model for 1st, 2nd, and 3rd party feeds.
- Augmented the data validation mechanism for Geo's central datastore, leveraging 1000s of checks to ensure billions of map entries are self-consistent and well-formed.
- Refined Geo's Knowledge Graph representation of the world via large-scale data & client migrations, easing the intake of new attributes and reducing data churn.

CovEducation, Cambridge, MA

March 2020 - August 2021

Chief Technology Officer

- Led ~20 engineers to build a platform that pairs college students with K-12 students in underserved communities, for free reaching over 10,000 mentors & mentees.
- Oversaw the full-stack development of the platform, including front-end development, API design, deployment, and security and mentor / mentee matching system.

MIT Media Lab, Cambridge, MA

Dec 2018 - May 2021

Undergraduate researcher - Viral Media Group

- Researched how subcarriers of information (e.g. facial expressions) affect our perception and understanding of the content.
- Developed a distributed stream system which listened to ~20 live video feeds, applied a series of modules (e.g. generative network style transfer, speech-to-text, etc), and generated structured output for ML training / evaluation purposes.

Google, Remote

June 2020 - August 2020

Software Engineer Intern - Android Auto / Assistant

- Created an Assistant feature informing drivers how many minutes away an intermediary stop is.
- Fine-tuned the trigger condition using an intent-based understanding of the voice query
- Collaborated alongside UX engineers to design the natural language output in multiple languages.

Google, Remote

June 2019 - August 2019

Software Engineer Intern - Search

- Leveraged our team's intent-based understanding of webpages to improve our query fulfillment quality.
- Built a pipeline which analyzed trends amongst billions of websites to form a hierarchy of intents.

IBM, Yorktown Heights, NY

June 2018 - August 2018

Software Engineer Intern

• Developed a Python library to manage serverless microservices within IBM Cloud Services.

Activities

MIT Weblab, Instructor

January 2020 - February 2021

• Taught ~250 students as part of MIT's accelerated web-development class, covering web fundamentals (HTML/CSS) up to a modern web stack (ReactJS, NodeJS, Firebase, etc).