Chelsea Troy

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My career plan right now: build programming languages tailored to scientists for understanding and solving climate crises, health crises, and human crises.

Author, chelseatroy.com: 2014—Present

- I write about machine learning, engineering, and the tech industry.

Writing Code for Money, Various Clients: May 2019—Present

- I live stream some development work to my YouTube Channel: chiefly feature development and maintenance of The Zooniverse mobile app.

Computer Science Faculty, University of Chicago: Winter and Spring

- I teach iOS Development in the Master's Program in Computer Science.

Machine Learning Engineer, Ascent Technologies: 2017—2019

- I worked on models to help interpret legal text. I also wrote code to improve our data and machine learning infrastructure.
  - I maintained a model that predicts how frequently a legal rule must be reviewed. It combines keyword identification and a classifier based on a token count vectorizer.
  - I improved a model that predicts how to group chunks of text into child rules. I used a combination of data cleaning and feature engineering to do it.
  - I built an internal library to document and save our experiments on models so we could manage our model versions and review what we've tried, regardless of whether we ever put it in master.
  - I wrote the first version of our canonical data service to access and modify our data in a graph database. I pitched the project to leadership, managed it to MVP, ported all our data from a relational to a graph format, wrote the integration to our customer-facing client app, then paired with other developers to empower them to maintain and further develop the project.

Software Engineer, Pivotal Labs: 2013—2017

- I worked face to face with client teams to build maintainable software toward business goals. We TDD every app and integrate in prod daily.
  - I led development on an Android app for an $18 billion airline to transfer luggage, track hazardous cargo, bill for mail delivery, and distribute weight safely in the plane.
  - I led development for a mobile app for a $37 billion health insurance company. The app tracks BMI and blood sugar changes. For this app, I wrote custom data visualization software to depict blood sugar risk levels based on several variables.
  - I developed on a project for a $49 billion ground transportation company to match vehicles with people who need rides. It includes an iPhone app for riders, an iPad app for drivers, a web client for dispatchers (ReactJS), and a server to match vehicles and riders (Spring and Java).