Cesar Ferreyra-Mansilla

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SKILLS

Programming Languages HTML5, CSS3, JavaScript(ES6), PHP, Java, Python, MATLAB, OCaml
Frameworks & Libraries React, Angular JS, D3.js, Node.js, Gatsby, Flask, Jest

EDUCATION

Cornell University '21 | BA Information Science, minors in Computer Science and English

Coursework: Object-Oriented Programming • Data Structures • Functional Programming • Discrete Structures • Data-driven Web Applications • Design & Programming for the Web • Data Science • IR Systems • Differential Equations • Single- and Multivariate Calculus • Statistics and Probability • Information Ethics and Policy

EXPERIENCE

FileOvr | Front-end Software Engineer ***Ithaca, NY*** | *Spring 2021 – Present*

- Conducted user research and identified a target market in order to lead a team of developers and graphic designers through the development of a user-interface.
- Used unit testing with Jest to ensure functionality.

The Cornell Daily Sun | Front-end Software Engineer ***Ithaca, NY*** | *Spring 2019 – Spring 2021*

- Employed agile software development methodologies (SCRUM, Kanban) to revitalize and maintain web pages for Ithaca, NY's independent newspaper, the Cornell Daily Sun.
- Became proficient in several front-end frameworks, mainly **bootstrap**, **react.js**, and **d3.js**, as well as Github in the context of a large-scale code base.
- Developed and deployed two experimental web-pages in April and November of 2020: COVID-19 Updates and Resources: *http://specials.cornellsun.com/covid19* and a feature story for an upcoming congressional election: *http://specials.cornellsun.com/nys23*

PROJECTS

Take a Hike | Python **(** https://cs4300-hiking-trails.herokuapp.com/) *Spring 2021*

- Collaborated in a team of 5 developers to implement a fully functional ad hoc information retrieval system that recommends hiking trails in the Finger Lakes area based on reviews and descriptions collected from the web using BeautifulSoup's HTML parser.
- Formulated vector representations of textual data to represent them in binary and TF-IDF term-document matrices.
- Calculated various similarity measures (Levenshtein (edit) distance, cosine or dot product, Jaccard), and applied Rocchio Relevance Feedback algorithm to improve retrieved results.

Poker | OCaml **(** https://github.com/crfmc/Poker) *Spring 2020*

- Collaborated with two other developers to implement a single-player Texas Hold 'Em simulation complete with a user interface.
- Leveraged polymorphic variants and functional programming features to implement a custom text parser, making the game playable from the command line.
- Programmed a set of opponent "bots" which played optimized responses to state changes by the user.

crfmc.me | React **(** https://github.com/crfmc/crfmc.me)
Spring 2019

- Leveraged UX/UI principles (hand position controls, touchscreen target sizes, intuitive navigation) to implement seamless mobile- and tablet-friendly interfaces.
- Employed lazy loading techniques to reduce loading time by 40 percent.