

NATE CHAPMAN

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PROJECTS

iVidz | Rails, React.js, PostgreSQL

Live | Github

A video-sharing web application inspired by YouTube

- Implemented a fully-functional search bar using the PgSearch library to provide more user interactivity and allow the user to search for specific content
- Introduced a loading animation when uploading longer videos for a more comfortable user experience
- Leveraged Rails polymorphic associations for likes on videos and comments for DRY code

CyberDrive | JavaScript, jQuery, Canvas

Live | Github

- Programmed a fun two-player Tron game using JavaScript and a visually appealing 80's aesthetic
- Implemented sound effects, customizable players, and Canvas drawing animations to immerse the user in the CyberDrive experience

DOMable

Live | Github

- Created a lightweight library for users to transform and manipulate DOM elements, make AJAX requests and handle events

EXPERIENCE

Calamos Investments

Naperville, IL

Research Associate, Market Neutral Income Fund, \$4b AUM

Summer 2016 – Summer 2017

- Created a Python program that interfaced with Excel files to graph a surface plot of option volatility data for use in meetings with potential investors, including a \$300 million deal
- Recommended and implemented an Akima Spline algorithm to interpolate and smooth historical volatility datasets with larger time gaps than present volatility data for a smoother surface plot

Harger Lightning & Grounding

Grayslake, IL

Engineering Student Consultant, Senior Design

Winter 2016 – Summer 2016

- Collaborated with a company team to analyze current copper scrap and engineer an atomization and oxidation system for copper reclamation
- Using a budget of over \$500,000, designed and implemented a solution saving Harger over \$120,000 a year
- 1st place Gold award in Division V (Bachelor & Graduate Degree Papers) Lincoln Arc Welding Foundation

EDUCATION

APP ACADEMY

New York, NY

- Rigorous full-stack software engineering program with <3% acceptance rate *Summer 2017*
- Topics include: TDD, scalability, algorithms, OOP, coding style, REST, security, and single-page apps

UNIVERSITY OF ILLINOIS

Urbana-Champaign, IL

Bachelor of Science, Industrial Engineering

Fall 2011 – Spring 2016

Curriculum Highlights: Linear Algebra, Statistics and Stochastic Processes, Simulation, Algorithms I

TECHNICAL SKILLS

Ruby
React

Ruby on Rails
Redux Architecture

JavaScript
AWS

Python
Git

HTML5
RSpec

CSS3
jQuery