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, allowing the user to search for specific content
- Introduced a loading animation through CSS3 animation when uploading longer videos for a more comfortable user experience
- Leveraged Rails polymorphic associations for likes on videos and comments for DRY and readable code

CyberDrive | JavaScript, jQuery, Canvas   Live | Github
- Programmed a fun two-player game inspired by Tron 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, create 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*

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	Ruby on Rails	JavaScript	SQL	Python	HTML5	CSS3
React	Redux Architecture	AWS	Git	RSpec	jQuery	