

# Nick Howlett

[nick@nhowlett.com](mailto:nick@nhowlett.com) [portfolio](#) [linkedin](#) [github](#) Phone: 510-356-8151

**Skills** JavaScript, C, Ruby on Rails, Python, React.js, Redux, SQL, HTML5, CSS3

## Education

**University of Chicago** - BA Psychology (Honors) GPA: 3.53/4.00, Minor, Computer Science GPA: 3.59/4.00 (2014-2018)

- **Curriculum Highlights** - Networks and Distributed Systems, Usable Security and Privacy, Algorithms

**App Academy** - Rigorous 1,000-hour full-stack software development course with a <3% acceptance rate (2019)

## Projects

**Sherwood** (*JavaScript, React.js, Redux, Recharts, Ruby on Rails, WorldTradingData API*) [live site](#) | [github](#)

*A single page app clone of the popular stock trading website robinhood.com*

- Designed an algorithm to efficiently sift through up to five years of a user's transactions to build an interactive chart of portfolio trends
- Built a web scraper to harvest, parse, and store data on over 8,000 publicly traded companies, including number of employees, dividend yields, and company descriptions
- Implemented interactive charts of real-time stock data ranging from one day to five years prior using data provided by the WorldTradingData API

**MyPhotoJourney** (*MongoDB, Express, React.js, Node.js, d3, AWS S3, node-geocoder*) [live site](#) | [github](#)

*Web application for creating and sharing an interactive map of a trip made with a team of four.*

- Streamlined photo upload experience by prepopulating date and GPS coordinates from EXIF/TIFF photo metadata, enhancing upload form usability
- Implemented secure user authentication from backend to frontend, hashing and salting passwords with BCrypt, and leveraging JSON Web Tokens stored in Axios headers to persist user session

**Trigonometry Wars** (*JavaScript, HTML5 Canvas, CSS*) [live site](#) | [github](#)

*Game where the player tries to survive against waves of enemies with a slow-charging bouncing laser*

- Designed a collision algorithm leveraging vector math to ensure the player's laser accurately bounces obstacles and providing pixel-perfect detection for enemy-player, laser-player, and enemy-laser collisions
- Built a high-score board and score submission using a lightweight Node.js, Express, and MongoDB server

## Experience

**Technical Instructor** **May 2019 - Present**  
San Francisco, CA  
*App Academy*

- Provide hands-on support, feedback, and mentorship to students undertaking projects using a variety of technologies including React, Redux, Rails, Node.js, Express, MongoDB
- Administer mock interviews and whiteboarding sessions on data structures, algorithms, and system design to prepare students for interview questions

**Honors Thesis Student** **Sept 2015 - June 2018**  
Chicago, IL  
*Developmental investigations of Behavior and Strategy Lab*

- Analyzed and charted data for studies on moral-cognitive development using R and Excel
- Conducted interviews with over 1,000 children for studies published in major Psychology journals
- Completed honors thesis on children's understanding of confession, leniency, and punishment

## Leadership

**President** **June 2017 - June 2018**  
Chicago, IL  
*University of Chicago Japanese Animation Society*

- Directed annual student-run day-long public convention with over 1,200 attendees, including securing sponsorships, managing over 40 volunteers, and recruiting guest speakers
- Raised \$5,000 in funding and secured meeting and event space from university administration

**US/UK Citizen, Proficient in written and spoken Japanese**