

# Philip Roth

248-227-0787 | [phil.roth077@gmail.com](mailto:phil.roth077@gmail.com) | 5240 N Sheridan Rd Apt 207, Chicago, IL, 60640 | [phil-roth.com](http://phil-roth.com) | [GitHub](https://github.com/phil-roth)

Full stack web developer with a passion for finding innovative solutions. With experience in Ruby on Rails, JavaScript, and React as well as a Bachelor's in Entrepreneurial and Industrial Engineering. I have been praised for my strong skills in product design, project management, and creativity that help teams meet deadlines and exceed expectations. I am a creative and driven leader who thrives in challenging environments. I also began learning music production 12 years ago and have come to see sound design through a visual design lens which has supported my coding skills.

## TECHNICAL PROJECTS

### AudioPhiles - [Frontend](#) | [Backend](#)

*A peer to peer audio sample sharing app with a visual representation of the uploaded audio samples.*

- ❖ Crafted the user interface with React and Redux with Semantic UI for styling.
- ❖ Utilized Active Storage in Rails to store the audio files.
- ❖ Developed a Rails API backend with endpoints for song, users, tags, and favorites.
- ❖ Tailored JSON Web Tokens and localStorage to store encrypted user information client-side.

### RetroJS - [Github](#) | [Live App](#)

*A recreation of the game Pong made to play with 2 players on one keyboard.*

- ❖ Designed and implemented game states and animation in JavaScript to allow fully customizable gameplay.
- ❖ Leveraged HTML5 Canvas to render and animate play field and characters.
- ❖ Developed a Rails API backend to track players and games.

### Team Lunch Roulette - [Frontend](#) | [Backend](#) | [Demo Video](#)

*Choose where to go for lunch at random by choosing a location and food preference.*

- ❖ Created the user interface with React and Semantic UI for styling.
- ❖ Employed the Yelp API with restaurant endpoint.
- ❖ Developed a Rails API backend with endpoints for teams and users.
- ❖ Utilized JSON Web Tokens and localStorage to store encrypted user information client-side.

## TECHNICAL SKILLS

Ruby, Rails, React, Redux, JavaScript, Node.js, SQL, Microsoft Office, AutoCAD Mechanical, Inventor, Crystal Ball Forecasting Program, 3DS Max, NX, Promodel Simulation Software, Ableton Live, Six Sigma Lean Manufacturing.

## EMPLOYMENT HISTORY

### Trilogy Education

*Remote Teaching Assistant (Part-Time)*

**Remote**

*July 2020 - Present*

- ❖ Work alongside teachers to mentor students and teach Full Stack Development.
- ❖ Instruct curriculum that includes HTML, CSS, Git, Node.js, JavaScript, Bootstrap, and React.
- ❖ Hold code review sessions and weekly office hours, manage student project groups, and provide direct feedback and best practices.

### PRAB Inc.

*Industrial Engineer & Estimator*

**Kalamazoo, Michigan**

*December 2016 - March 2019*

- ❖ Ran newly acquired subsidiary, Kalamazoo Fabricating, serving more than \$500k of custom manufacturing contracts yearly.
- ❖ Independently engineered multiple projects from pain point through design, prototyping, research, implementation an upkeep in under a month each with a part-time focus that would normally take a full time individual two months to complete.
- ❖ Coordinated design and production of custom equipment for more than 20 outside companies based on broad specs.
- ❖ Improved efficiency of manufacturing floor processes by 10% through improving design of and fabricating new equipment.
- ❖ Reduced utility (water) usage in fluid filtration system manufacturing by 10% through equipment redesign.
- ❖ Handled challenging task of making company profitable with unrealistically high prices and challenging steel tariffs.

## EDUCATION

### Flatiron School

*Full Stack Software Development Program*

**Chicago, IL**

*2019*

### Western Michigan University

*Bachelor of Science in Entrepreneurial and Industrial Engineering, Minors in Mathematics and Manufacturing  
Vice President of Phi Mu Alpha Sinfonia*

**Kalamazoo, MI**

*2016*