

# Tal Aharon

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## About Me

As a chemist turned software developer, I've used my passion for tough problems as a catalyst for my transition into engineering. Whether writing code for molecular simulations, working with databases, or building full stack web-apps, I channel my passion for learning and exploration into every part of my work

## Education

- 2014–2019 **Ph.D. Chemistry**, *University of Kansas*, Lawrence, KS  
Summer 2015 **MolSSI Software-Development Bootcamp**, Blacksburg, VA  
2008–2012 **B.S. Chemistry**, *University of Massachusetts*, Amherst, MA

## Skills

Python, Pandas, Bash, Fortran, LaTeX, Agile/Scrum  
React, JavaScript, jQuery, MongoDB, Mongoose, Express, Ruby, Rails, PostgreSQL, HTML, CSS, Bootstrap

## Experience

### Research, Analysis, and Development

- 2020–2020 **Software Engineering Fellow**, *General Assembly*, Boston, MA
- Full time 500+ hour immersive program focused on full stack development using modern programming techniques.
  - Worked in 4-day sprints while practicing Agile methodology, Scrum principles, and using MVC frameworks.
  - Built RESTful APIs or integrated data from third-party APIs.
- 2014–2019 **Graduate Research Assistant**, *University of Kansas*, Lawrence, KS
- Designed and coded an efficient method to predict molecular properties, decreasing cost of the simulations by up to 10x.
  - Automated workflow after observing manual data collection.
  - Prepared, presented, and published research results in local/national scientific meetings and academic journals.
  - Engineered opportunities to establish collaborative projects between research groups.

### Teaching and Mentoring

- 2014–2019 **Graduate Teaching Assistant**, *University of Kansas*, Lawrence, KS
- Lab/Lecture Teaching Assistant
    - Planned exam review and class discussions, wrote exams, and instructed students during weekly laboratory experiments.
  - Undergraduate Mentor
    - Head point of contact between undergraduate research students and head researcher.

## Software Projects

**Aegir's Corner**      *Tech: React, Express.js, Mongoose, MongoDB, JavaScript, Git, Github, HTML, Bootstrap*  
Built a responsive full stack SPA allowing users to record recipes for brewing beer.

**Tome**      *Tech: Express.js, Mongoose, MongoDB, JavaScript, Git, Github, HTML, Bootstrap*  
Built a full stack SPA where users can create posts, and comment on and favorite other user's posts

**Board Game Tracker**      *Tech: Ruby, Rails, PostgreSQL, JavaScript, Git, Github, HTML, Bootstrap*  
Built a full stack SPA to store a user's board game library and record games played

**Tic-Tac-Toe**      *Tech: JavaScript, Git, Github, HTML, Bootstrap*  
Built a client side SPA to play tic-tac-toe and ultimate tic-tac-toe using magic square style logic and a third party API