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.

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