

Han Lee

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TECHNICAL PROJECTS

I-train-tracker 100 100 100 100 100 100 [Github](#) | [Available on Google play](#)

Android App for tracking Chicago CTA L-trains

- ▶ Built a native app with React Native
- ▶ Routed with React Navigation and persisted data with Redux Persist

Chem-lab-note 100 100 100 100 100 100 [Github](#) | [Demo](#)

Website for chemists to keep their lab notes online

- ▶ Built a single page web app with AngularJS and a JSON API with Rails
- ▶ Used Angular UI-Router as a routing framework
- ▶ Built Angular custom directives for reusable components

chem-findr 100 100 100 100 100 100 [Github \(Rails\)](#) | [Github \(React\)](#) | [Demo](#)

Website for chemists to find a chemical and its properties

- ▶ Built a single page web app with React and a JSON API with Rails
- ▶ Used Nokogiri and Mechanize to scrape Sigma-Aldrich website

JournalShare 100 100 100 100 100 100 [Github](#) | [Demo](#)

Web platform for scientists to share their authored articles

- ▶ Built a CRUD interface with Ruby on Rails framework
- ▶ Improved user experience with JQuery Ajax
- ▶ Used Devise and Omniauth for user authentication

bike_owners 100 100 100 100 100 100 [Github](#) | [Demo](#)

Web application for bicycle owners to share information about their bikes

- ▶ Built a MVC framework with Sinatra
- ▶ Designed the database with ActiveRecord associations

batting_leaders 100 100 100 100 100 100 [Github](#) | [RubyGems](#)

RubyGem for checking MLB batting leaders' batting stats on CLI

- ▶ Built a Command Line Interface app with Object Oriented Ruby
- ▶ Scraped ESPN with Nokogiri

EXPERIENCE

Novomer Inc., Senior Scientist

Rochester, NY, Jan 2009 - Feb 2018

- ▶ Create and analyze experiment design using statistical software JMP® to optimize chemical reaction processes
- ▶ Conduct literature and patent searches through scientific search program, Scifinder®

SKC, Co., Ltd., Research Engineer

Suwon, Kyungki, South Korea Jan 1997- Jun 2000

- ▶ Formulated coating materials for polyester films

ABOUT

Url: tpstar.github.io

Github: github.com/tpstar

Blogs: medium.com/@tpstar

Linkedin:

linkedin.com/in/hanlee12

SUMMARY

Passionate full stack web developer with academic and industry experience in Chemistry. Innovative problem solver and flexible, fast learner.

SKILLS

Ruby on Rails, Sinatra,
Javascript, **AngularJS**, **React**, **Redux**,
React-Native, JQuery,
SQL, HTML, CSS, Bootstrap, Git,
Python, Django,
JMP (Statistical Software)

EDUCATION

Flatiron School

Full Stack Web Development, Ruby on Rails and JavaScript online program

University of Chicago

Ph.D. in Inorganic Chemistry
Mechanistic study of catalytic olefin polymerization by novel homogeneous organometallic catalysts

Yonsei University

M.S. in Organic Chemistry
Synthesis of enantiopure cyclitols
B.S. in Chemistry