

# NATHAN CHAN

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## SKILLS:

**Web Development:** Javascript, Typescript, HTML/CSS, React.js, Node.js, Express, Embedded Javascript (EJS), Postgres, SQL/Sequelize, NoSQL, MongoDB/Mongoose, RESTful APIs, Git/Github  
**Data Science:** Advanced Excel (Pivot Tables, Index-Match, Vlookup), MATLAB, R, Python, Tableau  
**Design:** Photoshop, Illustrator, Canva, Figma  
**Transportation Software:** Synchro/SimTraffic, VISUM, VISSIM, ArcGIS, Sidra, EMME, TransCAD  
**Foreign Languages:** Fluent in Cantonese. Proficient in Mandarin, French, and German  
**Management:** Microsoft Project, Trello, Slack, Notion

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## RELEVANT PROJECTS:

- Meals with Friends** | <https://github.com/nchan7/meals-with-friends> **August 2019**
- App allows users to grow their friend network and read their friends' reviews for food establishments
  - The full-stack app employs the MERN (MongoDB, Mongoose.js, Express.js, React.js, and Node.js) Stack including Typescript and React Hooks
- Safehouse** | <https://github.com/nchan7/safehouse/tree/nathanbranch> **July 2019**
- Placed third at a two-day hackathon project with a team of 2 UX/UI designers and 3 web developers.
  - Web app uses an Unreinforced Masonry API from the City of Seattle to show building risk levels using React.js.
- Trail Blazer** | <https://github.com/nchan7/trailblazer> **July 2019**
- Employed Node.js, Express.js, EJS, Postgres, SQL/Sequelize, Javascript, HTML/CSS (Bootstrap v4)
  - Web app draws from the Hiking Project API, Dark Sky API, Mapbox API that allows users to search a list of trails near a certain location, favorite them, and leave a review.
- Raincheck** | <https://github.com/nchan7/raincheck> **July 2019**
- Led a team of three to build a full-stack app, which queries the Dark Sky API for the weather for a user's commute at their origin and destination at times specified by the user.
  - The full-stack app employs the MERN (MongoDB, Mongoose.js, Express.js, React.js, and Node.js) Stack.

## PREVIOUS EXPERIENCE:

- Transportation Engineer/Planner III with Fehr & Peers** **June 2015 – August 2015, June 2016 – May 2019**
- Led the Seattle office Data Science Initiative to develop methodologies to analyze traffic patterns. Coordinated data collection efforts with multiple data vendors for traffic studies.
  - In less than three years, successfully managed over \$550,000, schedules, and staff for over 15 projects and tasks with staff from over 25 cities, public agencies, and subconsultants.
  - Presented project packages and updated policies to city engineers, planners, and the public regarding future transportation improvements for regional transportation plans 20 years into the future.
- Assistant Web Developer with PATH at UC Berkeley** **March 2014 – April 2015**
- Managed website content through Drupal 7 and Pantheon Workstation for I-210 Integrated Corridor Management Project at The Partners for Advanced Transportation Technology (PATH)
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## EDUCATION:

- General Assembly – Software Engineering Immersive** **May 2019 – August 2019**  
Full-stack web development graduate in an intensive, twelve-week, 450+ hour program.
- University of California Berkeley**
- Master of Science (M.S.) Civil Engineering - Transportation Engineering **August 2015 – May 2016**  
Bachelor of Science (B.S.) Civil Engineering, Minor City Planning **August 2011 – May 2015**