

Alexander Brueck

Software Engineer

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ABOUT

Software engineer with over seven years of mechanical engineering experience in the commercial building industry. Seeking to apply object oriented programming skills with prior experience to develop cutting edge engineering solutions.

SKILLS

Languages / Frameworks: Ruby, Ruby on Rails, GraphQL, Active Record, PostgreSQL, HTML, CSS, MATLAB, Linux

Development Tools: Minitest, RSpec, GIT & Github, Heroku, TravisCI & CircleCI for continuous integration & deployment

Practices: Test Driven Development, REST, Agile, Object Oriented Programming, MVC Architecture, Slack, Project Boards

Misc: Fluent in English and German (Native tongue), Data Structures, Algorithms, Big O Notation, Numerical Methods, Calculus, Differential Equations, Linear Algebra, Slack, Remote Work

PROJECTS

Sweater Weather API — Solo Project | [GitHub](#)

TECH STACK: Ruby, Ruby on Rails, PostgreSQL, JSON API Serializer, RSpec, CircleCI, Heroku

API constructed to meet fictional front-end's wireframe and JSON Contracts by aggregating four external APIs to provide current weather, forecast data and travel time for a road trip destination.

Viewing Party — Paired Project | [Heroku](#) | [GitHub](#)

TECH STACK: Ruby, Ruby on Rails, PostgreSQL, RSpec, CircleCI, Heroku

Full-stack rails app allows users to create and invite friends to virtual movie watch parties. The app incorporates the MVC design pattern, consumes The Movie Database API, and was developed with daily project collaboration with a team structure.

EV Station Finder — Paired Project | [Heroku](#) | [GitHub Frontend](#) | [GitHub Backend](#)

TECH STACK: Ruby, Ruby on Rails, PostgreSQL, JSON API Serializer, RSpec, CircleCI, Heroku

Full-stack rails app allows users to find EV charging stations by location. This app is under continued development and was built to hone and maintain the software technology skills learned at The Turing School. The front end and backend apps both utilize Rails and were intentionally built separately for modularity and interoperability with various programming languages.

EXPERIENCE

The Turing School of Software and Design, Denver, CO — Backend Engineering Program

February 2021 - August 2021

ACCET accredited 7 month program, 2000+ hours, 14 solo/group projects. Technologies learned include Ruby, Ruby on Rails, PostgreSQL, Active Record, RSpec, HTML, CSS, HTTP, GIT, Heroku, CI, TDD, REST, AGILE.

The Ballard Group, Lakewood, CO — Project Engineer

November 2013 - February 2021

50+ successful projects & 7+ years of experience in commercial mechanical building design including numerous LEED v4.0 projects.

Coordinated with four or more cross-functional, multi-disciplinary, building design teams to meet specific owner requirements.

Worked independently to complete mechanical building design including heating & cooling load calculations, control algorithms & diagrams, technical specifications, mechanical equipment configuration, BIM modeling, & construction administration.

EDUCATION

The Turing School of Software and Design — Backend Engineering Certificate

Auburn University, Auburn, AL — B.S. Mechanical Engineering