

Allen Tan

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Summary

Software engineer backed by 9 years of experience in the field of engineering. Driven by a desire to constantly learn and grow. Developed strong communication, critical thinking, and analytical skills from career as a design engineer.

Skills

Languages: JavaScript, Ruby, Java, HTML, CSS
Frameworks/Libraries: React, Ruby on Rails, Bootstrap
Other: Git, Jest, RSpec

Experience

LEARN Academy

Full-Stack Developer (Student)

Feb 2021 – Present

San Diego, CA

- Built responsive portfolio site from scratch using JavaScript, React, and Bootstrap
- Created a RESTful API in Ruby on Rails with unit testing in RSpec for a Pokemon tracker
- Employed test-driven development with Jest to complete weekly JavaScript assessments
- Utilized version control with Git when collaborating remotely on coding challenges

Solar Turbines (via Volt)

Senior Engineer (NPI Combustion Mechanical Design)

Jan 2017 – Dec 2020

San Diego, CA

- Led design reviews with 10+ cross-functional team members to verify design changes
- Authored technical reports to document the process, progress, and results of design work for four separate projects
- Developed dozens of new combustion components, including fuel injectors, liners, and fuel systems, using computer-aided design (CAD) software
- Analyzed component integrity using multiphysics simulation software to verify requirements were met

Mikroscan Technologies, Inc.

Mechanical Design Engineer

Jan 2015 – Jan 2017

Carlsbad, CA

- Headed design review of the Mikroscan SL5 to verify hardware specifications met design requirements
- Communicated with suppliers as the lead liaison for purchasing, quality, and design changes
- Revamped the design of the illumination assembly for the Mikroscan SL5 to be compatible with a 2x objective

Projects

Pokedex (Tech Stack: Java, Android)

- Android application that parses JSON data from a RESTful API to provide information on the original 151 Pokemon

Mortgage Calculator (Tech Stack: Python, Flask, HTML, CSS, Bootstrap)

- Web application that helps users make informed decisions on purchasing a home

Awards

Competent Communicator

Toastmasters International

Apr 2019

- Cultivated my public speaking skills by completing 10 speech projects

Education

San Diego State University

MS Mechanical Engineering

2012 – 2015

San Diego, CA

University of California, San Diego

BS Mechanical Engineering

2007 – 2012

La Jolla, CA