

IAN THOMPSON

San Diego, CA

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TECHNICAL SKILLS

Languages

Javascript, Typescript, Ruby, Golang, HTML, CSS, SQL, VBA

Frameworks / Libraries

React, Redux, Ruby on Rails, Bootstrap, Jest, React Testing Library, Rspec

Databases

PostgreSQL

Engineering

Git Workflow, Agile and Test Driven Development, Responsive Design

ADDITIONAL SKILLS

Customer Support

Detail Oriented

Multi-Disciplinary Teamwork

Problem Solving / Critical Thinking

Project Management

Research and Data Analysis

Quality Assurance

Time Management

User Experience Design

Written and Verbal Communication

MISC. SOFTWARE

Analysis Tools

Excel, JMP, MATLAB, Minitab

Operating Systems

Ubuntu Linux, Mac OS, Windows

Organizational

AWS, Bitbucket, JIRA,

Support

Figma, PGAdmin, PostmanAPI

EDUCATION

Bachelors of Science

Materials Science and Engineering

Michigan State University, 2010

SUMMARY

Software Engineer backed by strong critical thinking skill set developed over 8 years as a Metallurgist, Quality Engineer, and an intensive full-stack development bootcamp following a lifelong interest in web development. Experienced with data analysis and presentation skills while using a methodical approach to problem-solving in a diverse team environment.

SOFTWARE ENGINEERING

BuyList – Progressive Web App created using test driven development.

- React + Styled Components + Ruby on Rails + Postgresql

PermitDocs – Software Engineering Intern

San Diego, CA ■ January 2020 – February 2020

- Early stage startup with React/Redux + GoLang + Postgresql tech stack.
- Converted paths from sequential integers in URL to encoded hashes.
- Refactored back-end code base for greater consistency.
- Secured API Endpoints with Negroni, Gorilla Mux for Oauth.
- Quality Assurance: Manual Testing and Automated testing with Jest.

LEARN Academy – Full Stack Web Development Bootcamp

San Diego, CA ■ September 2019 – January 2020

- Gained proficiency in full-stack web development while in solo, pair, and mob programming environments.
- Group capstone project to build a full-stack application from scratch.
 - Career Track: React in Rails app to assist with job search activities.
 - Back-end and database programming lead.
- Practiced test driven development while utilizing Git workflow.

The Falling Waters – Summer Laborer / Web Developer

Saginaw, MI ■ Summer 2004

- Created website for small local business utilizing static HTML/Javascript

ADDITIONAL ENGINEERING EXPERIENCE

Senior Quality Engineer at United Technologies – Rockwell Optronics

Carlsbad, CA ■ April 2019 – September 2019

- Manage change control system and program quality actions via JIRA.
- Performed root cause analysis and corrective actions.

Quality Engineer at Entegris – Particle Sizing Systems

Goleta, CA ■ June 2018 – December 2018

- Generated process documentation and determined acceptance criteria.
- Automated Weekly/Monthly/Quarterly quality reports using JMP.

Quality Engineer at Northrup Grumman – Astro Aerospace

Goleta, CA ■ January 2018 – May 2018

- Created new inspection forms to improve user experience.
- Performed Failure Modes and Effects Analysis (FMEA).

Supplier Quality Engineer at MMI – IntriPlex Technologies

Goleta, CA ■ January 2015 – December 2017

- Qualified new Asian suppliers in support of transition to MMI -Thailand production. Supported Thailand location for any material related issues.
- Determined the root cause of a quality issue through Design of Experiments.
- Proactive Statistical Process Control of in-process and final inspection.
- Maintained documentation and performed ISO 9001 internal audits.

Process Quality Engineer at Precision Castparts – Special Metals

Dunkirk, NY ■ December 2013 – December 2014

- Utilized Statistical Process Control methods to disposition all products. Created Excel macros (VBA) pulling data from SQL databases to streamline process.
- Six Sigma Black Belt project optimizing material flow throughout production.

Plant Metallurgist at Cincinnati Steel Treating

Cincinnati, OH ■ June 2011 – November 2013

- Responsible for maintaining correct processing parameters 24/7.
- Primary technical customer contact. Assisted customers with failure analysis investigations. Supervised two technicians in the metallurgical testing lab.