IAN THOMPSON

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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

Accesibility Design
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, Docker, 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. Focused on UX and accesibility.

SOFTWARE ENGINEERING

BuyList – Progressive Web App created as a refresher after a work pause.
- React + Styled Components + Ruby on Rails + Postgresql

Software Engineering Intern at **PermitDocs**
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.

Full Stack Web Development Bootcamp at **LEARN Academy**
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.

Summer Laborer / Web Developer at **The Falling Waters**
Saginaw, MI ▪ Summer 2004
- Created website for small local business utilizing static HTML/Javascript

ADDITIONAL ENGINEERING EXPERIENCE

Senior Quality Engineer at **Collins Aerospace – 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.