



 Hutto, TX 78634 (USA)

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Skill & Tools

- Frontend
 - HTML
 - CSS
 - JavaScript
 - React
 - Angular
 - Material
 - Bootstrap
 - React Native
- Backend
 - Node.js
 - Express
 - MongoDB
 - REST APIs
 - Angular
 - Material
 - Bootstrap
 - React Native
- Cloud Computing | AWS: EC2, S3, VPCs, IAM, Lambda
- Dev Tools:
 - Git
 - GitHub
 - VS Code
 - Expo
 - Postman
- Automation & Visualization:
 - PowerApps
 - Power Automate
 - PowerBI
 - Grafana
 - Excel
 - VBA Macros
- Problem Solving: Root Cause Analysis, Kepner-Tregoe, Cause-Mapping
- Essential Skills
 - Attention to Detail
 - Verbal Communication
 - Collaboration
 - Leadership
 - Adaptability
 - Project Management

Education

Full-Stack Web Development Program

CAREER FOUNDRY
Certificate Completion
October 2023 – April 2025

- Frontend Development
- Server-Side Programming
- Cloud Computing
- Accessibility, Security, Authentication, Responsive Design

Mechanical Engineering

UNIVERSITY OF FLORIDA
Bachelor of Science | Minor in Biomechanics
December 2012 | Cum Laude

Elizabeth A Howell

Full-Stack Web Developer

SUMMARY | Full-stack web developer with a decade of experience in mechanical and manufacturing engineering, specializing in troubleshooting complex systems and improving processes. Builds functional, user-focused, and accessible web applications that bridge the gap between design and development through a strong technical foundation and process-oriented mindset. Preferably looking for remote or hybrid work, currently in the Austin, TX area, but open to relocation.

Web Development Project Experience

myFlix | Full-Stack Single Page Website Application (SPA)

- Constructed a backend server with a structured API to interact with a NoSQL Database
- Implemented secure user authentication and data validation
- Designed a responsive, single-page frontend UI for browsing movies, viewing details, and managing a user profile
- Tech Stack: Node.js, Express, MongoDB with Mongoose ODM, Heroku, JavaScript, React, Redux, React Bootstrap, JSON Web Tokens, password hashing, CORS, Express Validator, Postman, Parcel, HTML, CSS

CliqueUp | Progressive Website Application (PWA)

- Developed a progressive web app that allowed users to filter by city, show/hide event details, specify number of events to display, use the app offline, add home screen shortcut, and visualize event details through charts
- Employed React using a test-driven development technique (TDD), creating unit, integration, and end-to-end testing
- Established serverless function using AWS Lambda and hosted on AWS
- Created an Authorization Server with Google OAuth for access tokens for accessing Google Calendar API
- Tech Stack: React, Rechart, AWS Lambda, OAuth, Google Cloud, Google Calendar API. The testing uses React Testing Library, Jest, Jest-Cucumber, and Puppeteer

Chatly | React Native Application

- Built a mobile chat application using JavaScript and React Native that provided users with a chat interface and options to share images and location
- Authenticated users using Firebase and store conversations in Firestore Database
- Utilized an Android Studio emulator and Expo for mobile testing
- Tech Stack: React, Node, JavaScript, React Native, Expo, Google Firestore, Google Firebase, and Gifted Chat

Professional Experience

Sr Production Equipment Engineer | Tesla | Austin, TX

AUGUST 2021 – APRIL 2024

- Developed comprehensive asset strategy and Lock Out Tag Out (LOTO) protocols from scratch
- Engineered and fine-tuned systems to optimize operational efficiency, enhancing production scheduling, KPI tracking, and Outgoing Quality Control (OQC)
- Created a LOTO Database and permit issuing system leveraging PowerApps, Power Automate, and SharePoint

Indirect Cost Workstream Leader | Georgia-Pacific | Rincon, GA

MARCH 2020 – AUGUST 2021

- Directed facility-wide initiatives targeting indirect cost optimization by driving disciplined execution
- Led the identification and implementation of initiatives, resulting in a significant 20% reduction in maintenance costs and labor optimization

Asset Availability Leader | Georgia-Pacific | Multiple Facilities

AUGUST 2019 – AUGUST 2021

- Conducted in-depth data analysis of downtime losses and reliability reviews for long-term strategic planning
- Served as a key resource for mechanical root cause analysis and guidance on asset strategy
- Designed an internal customer-supplier communication tool utilizing PowerApps, Power Automate, and Power BI

Manufacturing Engineer | Georgia-Pacific | Multiple Facilities

MARCH 2013 – AUGUST 2019

- Directed efforts to develop and refine asset strategies for high-speed logistics equipment and paper converting
- Enhanced competitive positioning by implementing new labor structures, optimizing throughput, and reducing maintenance expenditure
- Served as a Relief Shift Mill Manager, demonstrating leadership and operational acumen