RYAN WILK

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DEVELOPMENT SKILLS

Front-End: HTML, CSS/SCSS, Bootstrap (3-4), Angular(2-9), React, JQuery, rxjs, D3.js
Back-End: Java (J2EE, JSP, Spring, Maven, Hibernate), Python, Node.js, Unix Shell
Database: Relational (MySQL, Oracle, SQL Server), NoSQL (Firebase, MongoDB, Elasticsearch)
Other: VBA, MATLAB, REST, GraphQL, Git, Electron, Concourse, Cloud Foundry, Ansible

EMPLOYMENT HISTORY

COMCAST (Contracted through TekSystems), *Philadelphia PA*

SENIOR FRONTEND DEVELOPER   Nov 2019 – Present
Overview:
Team leader for the development of the X1 Telemetry UI (Angular). Implemented new features and architected solutions to reduce technical debt, along with coached junior team members and delegated work.

Selected Accomplishments:
- *Added data visualization to display the top programs in real-time, along with various viewership data. Tool used by directors and executives to monitor high level cable events such as the Super Bowl.*
- *Created data visualization to display device tuning information overlaid on a map of the US to see market data and how they trend over time.*

SENIOR FULL STACK DEVELOPER   April 2019 – Nov2019
Overview:
Responsible for UI development, system health monitoring, and creating tools and automation to simplify the system health monitoring process.

Selected Accomplishments:
- *Created an automatic data monitoring tool using python, elasticsearch, and grafana to continuously and visually show data differences between environments.*
- *Reduced our data copy process from weeks to days through implementing snapshot & restore process in elasticsearch and created a front end to make the analysis process more intuitive.*

ACCENTURE, *Philadelphia PA*

SENIOR APPLICATION DEVELOPER   May 2018 – April 2019
Overview:
Responsible for maintaining and implementing improvements to the ALSC pharmaceutical clinical trial data collection system through finding solutions to user issues, creating new utilities, coordinating the implementation process, and managing activities of both onshore and offshore team members.

Selected Accomplishments:
- *Improved the Accenture Life Science Cloud document upload system by creating a new user interface that automatically gathered the necessary metadata from documents reducing the number of issues seen by the client during this process 84%.*
- *Created a bash shell utility to allow for the scheduling of stopping and starting Accenture Life Science Cloud utility services for maintenance activities, removing this manual process, reducing human errors, and saving approx. $45,000 annually in labor costs.*

NAVSEA SWRMC, *San Diego CA*

NAVAL ARCHITECT*   June 2016 – May 2018
Overview:
Responsible for assessing ship structures and the coatings of tanks and voids for the purpose of making maintenance and repair recommendations in accordance with the Corrosion Control Assessment and Maintenance Manual.

Selected Accomplishments:
● *Presented with an innovation award from the US Navy for implementing a VBA Frontend/Backend database to improve data collection abilities, reduce information processing time, establish metrics for benchmarking improvements, and automate reporting procedures.*

PROPULSION ENGINEERING TECHNICIAN V*   Aug 2015 – June 2016
Overview:
Responsible for providing shipboard technical assistance and performing various assessments pertaining to the Main Reduction Gear and auxiliary components of surface ships in accordance with the Joint Fleet Maintenance Manual.

*Held secret security clearance for these positions.

NORFOLK SOUTHERN CORP, *Altoona PA*

MECHANICAL SUPERVISOR   Jan 2013 – July 2015
Overview:
Responsible for meeting daily production goals, troubleshooting technical issues, ensuring quality, reliability, cost effectiveness, and implementing process improvements to locomotive component production lines.

Selected Accomplishments:
● *Independently developed production management software system pilot program utilizing JAVA/SQL/XML that was projected to save $1,250,000 annually. The multi-tiered architecture system focuses on improving quality, efficiency, and communication through data collection and report automation.*
● *Automated a quality control report using Python for a CNC milling machine which diminished a task that consumed 8 man hours per week of manual data entry to a simple push of a button, saving $12,500 annually in labor costs.*

EDUCATION
TECHNISCHE UNIVERSITÄT DARMSTADT, *Darmstadt, Germany*
B.S. – Mechanical Engineering, 2017 (Attended 2012, Completed 2017)
VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY (VIRGINIA TECH), *Blacksburg, Va*
B.S. – Mechanical Engineering, 2012
THESIS PROJECT
Built and evaluated a MATLAB interface for bluetooth accelerometers (MEMS) for applications in system health monitoring, performing system identification, vibration analysis, and other industrial applications.

ACTIVE PROJECTS
● *Developing an e-commerce platform using Angular 8, FIrebase, Stripe, and Sendgrid to target mid size companies too small to develop their own site, but too big to form traditional small scale sales. (Currently in use by 1 company in Va).*
   Project Sample: *https://alpineknives.com/*
   Git Repo: https://github.com/rjw1428/ssr-webstore

- *Portfolio Website to showcase some of these listed projects, ideas, and activites that represent me as a developer. Using React and Firebase, along with Mobile First design principles. (Development still in progress)*
  Project Sample: *https://rjw1428.github.io/portfolio-project/*
  Git Repo: https://github.com/rjw1428/portfolio-project

SELECTED PREVIOUS PROJECTS

- *SpaceX launch history front end website using SpaceX's GraphQL query api.*
  Project: *https://rjw1428.github.io/spacex-graphQL/*
  Git Repo: https://github.com/rjw1428/spacex-graphQL

- *Developed a full-stack Digital Menu system to reduce restaurant overhead and improve customer engagement, using an Angular 7 and Firebase backend to allow menu changes to be made in real-time from any web connected device. This system also has a monitoring process to deliver alerts to myself in case of issues, and allows me to control the hardware remotely. (Currently installed in 3 bars in San Diego and 2 in Philadelphia).*
  Project Sample*: https://ssrdigitaldisplays.com/display/restfest/2*
  Git Repo: *https://github.com/rjw1428/ssr-menuboard/tree/master/src/app*

- *Developing a website for a San Diego restaurant where all content could be edited from the managers phone, saving them extensive costs in having a web developer keep the changing content up to date.*
  Project Sample: *https://brodysburgersandbeer.com/*
  Git Repo: *https://github.com/rjw1428/brodys-site*