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If you go to my website ErikDMueller.com you can watch a prerecorded video tour of my entire portfolio, but if paper and ink is your only option then here goes:

I studied Mechanical Engineering at the Ohio State University but ultimately decided that I like being a developer better. I am a thinker, developer, and a problem solver. The world is not a net-sum zero game. We're all better off if we work together, which is the basis for everything that I do. I've had a diverse career that has revolved around entrepreneurship and technology. I enjoy thinking outside of the box and finding unique solutions to problems. I have coded practical solutions to my day to day challenges my entire life. I graduated from a 14 week full-stack web-development coding boot camp and am looking for a role where I can ultimately make a difference.

Technical Skills

- **Object Oriented Programming:** Java, JavaScript, C++
- **Web Application Development:** Spring Frmwrk, HTML, CSS, JavaScript, JQuery, Servlets, JSP, Web MVC, Tomcat
- **Database Programming:** JDBC, table design and creation, SQL queries and DML, PostgreSQL, ER Diagrams
- **Development Tools and Techniques:** Agile, unit testing(Junit), integration testing, TDD, GIT, Eclipse
- **Additional Skills:** SolidWorks, 3D CAD, G-Code, Visual Basic

Education

Tech Elevator,

Summer 2018 Cohort

I graduated from a 14-week extensive web software boot camp learning how to develop dynamic web-based applications using the Java programming language and the Spring MVC framework

The Ohio State University Columbus, Ohio

2013-2018

Studied Mechanical Engineering with a focus on robotics and actuators.

Technical Experience

Community Tool Lending Library Inventory Management Software

- Java Spring MVC website with session for user preferences
- Uses 9 controllers, 4 DAOs, 11 classes and a 5 table postgresql database
- Uses bootstrap and is completely mobile responsive
- Made completely from scratch aside from Bootstrap
- Has CSRF filter
- Has Client side and Server side form validation on all form inputs
- Uses salted password hashing on the database
- Integrated Junit tests for all the DAOs
- Bash script and sql scripts to set up the database
- Uses a CDN for jquery and bootstrap
- Two login modes: Librarian or User, librarian has full functionality, user can edit their personal info
- Running on my website ErikDMueller.com in the portfolio section
- Viewable on GitHub at: <https://github.com/ErikUnique/Tool-Lending-Library-Demo-App>

Personal Website ErikDMueller.com

- Made completely from scratch aside from the CSS animations themselves

- Viewable at ErikDMueller.com
- Viewable on GitHub at <https://github.com/ErikUnique/ErikDMueller.com>
- Front End
 - Completely Mobile Responsive, any screen size
 - Uses a fixed background image with overlay text and buttons. The buttons are jquery click events that “animate out” the current div element and “animate in” the selected div element.
 - Adjusts size and position of background and text three times as screen shrinks
 - Uses alert boxes, modals, css animations, javascript and jquery
 - Allows downloading of my pdf resume, blocks cross-referencing downloads
 - Audio clip tour on homepage
 - Right click “inspect” and take a look around!
- Back End
 - Java Spring MVC 4.0
 - Apache-Tomcat 9.0 JDK 11 Server
 - Uses a CDN for jquery and bootstrap
 - Has CSRF filter
 - Deployed into a WAR file and uploaded onto the hosted server
 - PostGresql databases and all other dependencies are completely implemented to run the Tool Lending software
 - My personal website has a tiny back end because that’s all it needs, the Tool Lending software has a much more robust backend if you’re looking for more provenance

National Park Weather Website

- Spring MVC website with session for user preferences
- Server side form validation and PostgreSQL database and Junit testing on backend

Vending Machine Software

- Developed a command line vending machine application
- Used file.io for the input of items and output of sales logs

Personal Technical Projects

- Built a digital-to-analog and an analog-to-digital audio converter on a Raspberry Pi
- Programmed Arduinos to perform dozens of scientific operations with sensors
- Worked extensively with SolidWorks to 3D print various projects using G-Code
- Completed multiple robotics projects while attending Ohio State, including a roller coaster that was modeled in SolidWorks then constructed out of PVC plastic and balsawood, complete with speed sensors and an electric drive motor, as well as an arduino controlled desktop robotic arm that could manipulate small objects and return to specific predetermined positions
- Created numerous Remote Control models including an air boat that had a moving center of mass to overcome tipping and a model airplane that would radio-controlled eject a miniature paratrooper

Professional Experience

Construction Field Tech

2016 – 2017

Alt & Witzig Engineering, Columbus Ohio

- Traveled to construction sites and looked at design drawings
- Inspected construction site rebar patterns, concrete, dimensions and dirt conditions

- Communicated with construction workers and supervisors on location if any specifications were not fulfilled

Founder and President

2007-2012

American Auto Accessories, Columbus Ohio

- Dealt extensively with the pertaining export/import laws for Germany to take advantage of the increased demand from the stylistic differences between the North American and European parts
- Assembled, continually updated and implemented a Microsoft Access Database of all valuable car parts selling on the US and German eBay sites
- Detailed average selling price in the respective markets and the average part cost
- Kept reference photos and all specific years, makes and models of vehicle on which they could be found and were compatible
- Regularly exported the database into an HTML format for ease of use

Sales Associate and Tech Manager

2005–2007

Isoldit On eBay, Columbus Ohio

- Updated and maintained the small computer network in the store, including Windows, Outlook and proprietary *Isoldit* software
- Performed occasional hardware upgrades as needed including ram, hard-drives and keeping the network router running
- Researched the eBay selling prices of things that customers would bring in to potentially sell and listed the items on eBay

Emergency Road Service Operator

2004 – 2006

Ohio Auto Club AAA subsidiary, Worthington Ohio

- Received incoming calls from AAA members in need of service
- Determined the priority of the call and what specific equipment was needed based on their exact vehicle and exact problem including cars, trucks, vans, RVs, motorcycles and trailers
- Coordinated proper service with contract towing garages
- Assuaged fears of the member and found alternate lodging/transport