

# Joe (Jin) Doh

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## SKILLS

React, Redux, Ruby, Rails, Javascript, HTML, CSS, SQL, Git

## PROJECTS

**PERFECTpx** (HTML, CSS, Rails, ReactJS, JBuilder, SQL, AWS)

perfectpx.joedoh.dev | <https://github.com/dohmain/perfectpx>

*Photo sharing site inspired by 500px.com*

- Deployed a single page application where users can share their own pictures, comment on pictures, and follow other users
- Implemented multi-stage sign-up process for a smooth, seamless, and interactive sign-up experience
- Stored photos on AWS (Amazon Web Services) S3 for quick uploading and fetching of images
- Backend built on Ruby on Rails with custom PostgreSQL database

**jsTetris** (HTML, CSS, JavaScript)

tetris.joedoh.dev | [github.com/dohmain/tetris/](https://github.com/dohmain/tetris/)

*Classic game of Tetris coded in JavaScript*

- Coded entirely in vanilla JavaScript
- Game graphics drawn using HTML5 Canvas API

**An Exploration of Benford's Law** (HTML, CSS, D3.js)

benford.joedoh.dev | [github.com/dohmain/benford/](https://github.com/dohmain/benford/)

*An interesting examination of Benford's Law using real-world data*

- Utilized the power of D3.js to create an interactive data visualization display
- Data sourced from public APIs and self-generated data

## EXPERIENCE

**Engineering Technician - Connected Car, Software Validation**

*Harman International Industries*

Aug 2014 - Jun 2019

Lead team contributor with extensive experience in the testing and validation of infotainment and telematics software for the US automotive market. Worked on several generations of BMW infotainment systems, eventually assuming the lead test role for the tuner domain of the BMW NBTEvo system. Maintained plans and results for testing and validation of patch updates to BMW legacy projects.

- Developed and executed test plans to assess the functionality of new software builds in a real-world environment to ensure that features were implemented according to specifications
- Collaborated with SiriusXM developers to construct a consistently reproducible test scenario in an uncontrolled environment to analyze a feature-breaking edge-case defect
- Designed automatable test cases and worked in conjunction with our automation developer to integrate them into our test library in order to increase the scope of our automation testing
- Supported customer testing by contributing deep knowledge about current known issues, their use cases, and any existing workarounds
- Performed system performance and functionality tests to reproduce errors for gathering additional trace logs for analysis and to verify fixes that have been integrated into new software builds
- Coordinated and performed software upgrades to test benches and vehicles efficiently to minimize impact to daily testing demands
- Diagnosed and repaired communication faults on components using various vehicle communication protocols such as Ethernet, CAN, FlexRay, LIN, MOST
- Modified test environments on benches and vehicles with test hardware and custom harnesses
- Created documents and provided training and assistance to new team members to fully integrate them into our workflow quickly

**Software Engineering Intern - Connected Car, Software Validation**

*Harman International Industries*

Jul 2013 - Jul 2014

## EDUCATION

**Fullstack Development - App Academy**

February 2020

**BMW Level 1 Master Tech - BMW of North America, Woodcliff Lake, NJ**

2008 - 2009

**Automotive Technology - Lincoln Technical Institute, Mahwah, NJ**

2007 - 2008