

# BRENTON HERSHNER

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I started my career as a Mechanical Engineer and was promoted to Product Manager after earning my MBA. Despite my success, I always had a passion for code. I would often write small snippets of code to automate tasks. In March 2021 I decided to take a huge professional risk by quitting my comfortable, full-time job and joined a coding bootcamp. I loved every minute of the bootcamp. I woke up early to start coding before anyone else and was one of the last to sign off every night. Because of my performance, I was offered a role as a teaching assistant, which is extended to less than 10% of the students.

Rebuilding my career on a foundation of code really excites me! I've never felt better about the path in front of me and look forward to what the future holds.

## EDUCATION

CERTIFICATION	Software Engineering	Hack Reactor	Seattle, WA	2021
MASTER'S	Business Administration	Miami University	Oxford, Ohio	2019
BACHELOR'S	Mechanical Engineering	The Ohio State University	Columbus, Ohio	2008

## SKILLS

Languages:	JavaScript, Python, C/C++ (Arduino), Swift (some experience)
Front-End:	React, Redux, HTML, CSS, Bootstrap, Material UI, Babel, Webpack
Back-End:	NodeJS, Express, MySQL, PostgreSQL, MongoDB, NGINX
Development/Testing:	git, GitHub, npm, Mocha, Chai, Jest, React Testing Library, CircleCI, K6, Loader.io
Deployment:	AWS EC2 & S3, Google Cloud Platform, Docker, Netlify

## SOFTWARE PROJECTS

- ToPics**, *A photo sharing social network for concerts and events.* [github.com/brentonhershner/blue-ocean](https://github.com/brentonhershner/blue-ocean)
- Served as the project architect, managed the **GitHub** repo, enforced Airbnb **ESLint** rules, conducted or delegated code reviews, and integrated continuous testing with **CircleCI**.
  - Added batch photo upload to an **AWS S3** bucket so multiple photos could be uploaded at once.
  - Implemented the customer requested color scheme and a site wide dark mode using **Material UI**.
  - Setup the **express** server written in **NodeJS** to serve static files and field API requests.
  - Designed the API for communication between the browser and **MongoDB** database.
- iRenta**, *A web app for rental property management.* [github.com/brentonhershner/iRenta](https://github.com/brentonhershner/iRenta)
- Dynamically renders content and manages state using **React**. Used **React Router** for fast navigation and preserves navigation history with the performance of a single page application.
  - Incorporated **Material UI** to quickly develop a mobile-first, responsive user interface with site-wide dark mode.
  - Implemented a server with **MongoDB** to be able to quickly iterate on data schema during development and rapidly change with the scope of the project. Currently switching this to a **MySQL** database.
- Project-Catwalk**, *A responsive product page for an ecommerce web app.* [github.com/brentonhershner/Project-Catwalk](https://github.com/brentonhershner/Project-Catwalk)
- Implemented **React** for dynamic rendering so a user could browse without reloading the entire site.
  - Utilized the **styled-components** framework to uniformly apply **CSS** for a consistent visual customer experience with a singular design language. Added **SVGs** for crisp, non-rasterized graphics.
  - Distributed the bundled code with an **express** server which also acted as a proxy to add authorization when making **RESTful** API requests to a backend web server.
  - Tested using the **Jest** and **React Testing Library** to verify compliance to the customers business requirements. Automated testing with **CircleCI** which sped development and reduced bugs in production.

## PROFESSIONAL EXPERIENCE

- Software Engineer Immersive Resident**, *Hack Reactor* June 2021 to Present
- Instructed and guided troubleshooting to 500+ full-stack web development software engineering students.
  - Held office hours to give one-on-one help to students' specializing in **VS Code**, testing, and **SQL** query issues.
  - Facilitated stand-up meetings. Planned and ran social events and encouraged student engagement.
- Mechanical Design Engineer** then promoted to **Product Manager**, *OPW* May 2013 to March 2021
- Granted two patents. Placed twice and won once in an annual innovation competition. Prototyped an Arduino based device to control servos based on input from a capacitance sensor and accelerometer. Successfully redesigned a soon to be released product to use fewer components which reduced the part cost by 65%.
  - Managed products from conceptual stages to end of life. Launched a new product line for the European market. Led an effort to rationalize the product line by obsoleting poor performing products, resulting in a year over year profit increase despite lower revenue during the pandemic.
  - Developed and distributed a dashboard of sales performance using **Power BI** generated with **SQL** queries.
- Mechanical Engineer** then promoted to **Lead Electrical Engineer**, *Ferno-Washington* July 2011 to May 2013
- Designed electronic plastic enclosures, assemblies, and wire harnesses.
  - Successfully reduced the electromagnetic interference (EMI) of strained electric motors to compliant levels for a medical device. Designed the CAN bus protocol between components and managed vendors' development to ensure functionality.