

RELEVANT EXPERIENCE

Self-Employed

Freelance Web Developer & Data Scientist, MARCH 2019 – PRESENT

- [Open-source contributions](#) to Next.js, Bootstrap, freeCodeCamp, Ant Design, and others.
- [Responsive server-rendered real estate listing page](#) with APIs and tour scheduling functions, built for a client using Next.js, React, Firebase Authentication, and Cloud Firestore.
- [Next.js + MongoDB local authentication boilerplate](#) with a serverless architecture, hashing passwords with bcrypt.
- [Multi-page static-optimized portfolio website](#) built with Next.js and a custom responsive React Bootstrap design.
- [Interactive JavaScript data simulation](#) querying up-to-date COVID-19 data, built with Vega-Lite and Data-Forge.
- [10 Node.js API/microservice demos](#) built with Express, most connected to MongoDB Atlas databases, several including functional tests written with Chai and HTTP security measures added using Helmet.
- [10 Python API/microservice demos](#) built with Flask, most connected to SQLite databases.
- [Minimalist WordPress theme](#) styled with Sass and Bootstrap for a WordPress port of my portfolio website.
- [4 single-page interactive React apps](#), one also implementing a Redux state container.
- [2 custom React hooks](#) written in TypeScript, published to npm, and tested with Jest and Enzyme.
- [Single-page PHP to-do list app](#) with a SQLite database, designed with Bootstrap.

Internet Entrepreneur, FEBRUARY 2017 – FEBRUARY 2019

- Created a consumer product line and built an online store, customizing its Liquid/HTML template.
- Bootstrapped a peer-to-peer car rental business to over 10% net profit margins by leveraging online marketplaces.

Studies and Analyses Division, HQ Air Force Materiel Command, Wright-Patterson AFB, Ohio

Operations Research Analyst, JUNE 2013 – FEBRUARY 2017

Analyst Intern, MAY 2011 – JULY 2011, MAY 2012 – JULY 2012

- Provided concrete financial and operational analysis to a major acquisition program supporting a \$3 billion reduction in the life cycle cost estimate for initial spare parts with no reduction in system performance.
- Led the analysis portion of an Inspector General briefing eventually presented to AFMC's (4-star) Commander. In the process uncovered and developed solutions for Air Force-wide inspection data collection problems.
- 2014 HQ AFMC Category I Civilian of the Year

EDUCATION

Bethel University (formerly Bethel College), Mishawaka, Indiana

B.S. in Mathematics, Minor in Music, AUGUST 2009 – MAY 2013

- **GPA:** 3.88/4.0, *magna cum laude*; **SAT:** 2310/2400 (800 Math, 720 Critical Reading, 790 Writing)
- Coursework included multivariate calculus, linear algebra, differential equations, probability & statistics, computer programming (C++, Java), mathematical modeling (using R), abstract algebra, real analysis, and complex analysis.
- 2010 Ronald Bennett Mathematical Sciences Award; 2013 Outstanding Mathematics Undergraduate

freeCodeCamp – *Web Development Certifications, MARCH 2019 – NOVEMBER 2019*

- [Responsive Web Design Certification](#), September 3, 2019
- [JavaScript Algorithms and Data Structures Certification](#), September 3, 2019
- [Front End Libraries Certification](#), September 26, 2019
- [APIs and Microservices Certification](#), October 12, 2019
- [Information Security and Quality Assurance Certification](#), November 11, 2019