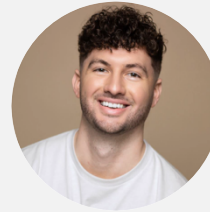# WEB DEVELOPER

FULL-STACK (JAVASCRIPT-BASED)

Aaron Motacek

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Full-Stack Web Developer with 2+ years of experience designing and developing websites and web applications and 10+ years of experience with multiple Adobe design software programs. Proven ability to leverage full-stack knowledge and experience to build interactive, user-friendly, modern web applications.

RELEVANT SKILLS   `Advanced`   `Intermediate`   `Beginner`

DEVELOPMENT

`ReactJS` `HTML` `CSS` `JavaScript` `MongoDB` `NodeJS` `ExpressJS` `Bootstrap` `Git`

`MUI` `Python` `Webscraping` `REST APIs` `VS Code` `NPM` `C#` `Java`

…NextJS(I), TypeScript(I), tRPC(I), Tailwind(B), NextAuth(B), Zod(I), Prisma(I), React Hook Form(I), Supabase, Heroku, Netlify, AWS S3/Amplify, Stripe API, DALL-E API…

DESIGN

`Adobe Illustrator` `Adobe Photoshop` `Adobe Lightroom` `Studio Photography` `Adobe After Effects`

`Adobe Premiere Pro` `Figma` `Shapr3D (3D CAD)` `Blender (3D CAD)`

EXPERIENCE

MineralBuddy / Fargo, ND   *https://youtu.be/lqd_ZiUr9tE*   *https://tinyurl.com/mineralbuddy*   *September 2021–Present*
Web App Developer & Designer

- Successfully design and developed a novel mineral rights tracking and management system for North Dakota mineral right owners with full-stack programming utilizing MERN stack as the sole software developer. *ReactJS, NodeJS, ExpressJS, MongoDB, JSX, HTML, CSS, JavaScript, Material UI (MUI), TanStack/React Table*
- Created an extensive document management system with CRUD (create, read, update, delete) functionality, file uploads *(Amazon S3 – Amazon Web Services)*, downstream auto-document creation based on properties of the uploaded/created document
- Cleaned up large Excel/CSV data *(Excel)*, converted to JSON format *(Python)*, and imported to database via mongosh (MongoDB command-line client)
- Created a unique "ranking" system based on oil, gas, and water production at the level of wells and sections
- Created a search feature to fetch documents from database based on many properties, including nested properties
- Created charts *(ApexChartsJS)* for visualization of different data across the app, pulling in and combining data from several sources (database, 3rd party API, etc.)
- Created python web scraping scripts for various data retrievals *(Requests, Requests-HTML, XLMX)*
- Developed custom user notification system and a geospatial-driven notification generation process within database updating script
- Designed site layout, overall aesthetic, logo, custom map markers, etc. *(MUI, Figma, Adobe Illustrator)*

Virtue Eye Care / Fargo, ND   *September 2020–Present*
Web App Developer, Optometrist

- Successfully designed and developed a custom electronic health records (EHR) system for the optometry practice with full-stack programming utilizing MERN stack as the sole software developer. *ReactJS, NodeJS, ExpressJS, MongoDB, JSX, HTML, CSS, JavaScript, Bootstrap.*
- Created CRUD (create, read, update, delete) and user-friendly search functionality for multiple database entities, including patients, glasses prescriptions, contacts prescriptions, and contact lens trials.
- Created a contact lens trial organization and management system based on status (e.g. "to be ordered", "order placed", "order received", "client contacted", "delivered to client", etc.)
- Created user/account tiers with varying privileges (e.g. "doctor" account, "technician" account)
- Created many features to enhance speed and efficiency for common tasks of EHR users

ASSESSMENTS

Front-End Web (HTML/CSS/JavaScript/ReactJS) (57k test-takers)   ***Top 7%***   *July 2022*
https://angel.co/apps/discover/angellist-front-end-web

Front-End Development (HTML/CSS/JavaScript) (665k test-takers)   ***Top 5%***   *July 2022*
https://linkedin.com/

EDUCATION

Building an AI Icon Generator using T3 Stack (2023) (Course Completion)   *(Gumroad) April 2023*

React Native: Beginner Practical Guide [2023] (Course Certification)   *(Udemy) January 2023*

Understanding TypeScript – 2023 Edition (Course Certification)   *(Udemy) January 2023*

C# (Course Certification)   *(Codecademy) October 2022*

React Basics (Course Certification)   *(Meta/Facebook) October 2022*

HTML and CSS in depth (Course Certification)   *(Meta/Facebook) October 2022*

Programming with JavaScript (Course Certification)   *(Meta/Facebook) July 2022*

Introduction to Front-End (Course Certification)   *(Meta/Facebook) July 2022*

Java: Object-Oriented Programming (Course Certification)   *(Codecademy) June 2022*

React Query: Server State Management in ReactJS (Course Certification)   *(Udemy) May 2022*

The Ultimate Figma & UI Masterclass (Course Certification)   *(The Designership) December 2021*

MongoDB – The Complete Developer's Guide 2021 (Course Certification)   *(Udemy) August 2021*

Learn JavaScript: Full Stack From Scratch (Course Certification)   *(Udemy) July 2021*

M001: MongoDB Basics (Course Certification)   *(MongoDB) July 2021*

ReactJS For The Rest Of Us (Course Certification)   *(Udemy) July 2021*

HarvardX CS50x – Introduction to Computer Science   *July 2021 – October 2021*

Python 3 (Course Certification)   *(Codecademy) February 2021*

Co.Starters – Business Development Program / Fargo, ND   *March 2016*

Illinois College of Optometry / Chicago, IL   *May 2020*
Doctor of Optometry (3.86 Cum GPA)

University of North Dakota / Grand Forks, ND   *May 2012*
B.S., Biology (3.96 Cum GPA)

- Independent Study: Web Design & Development
- Basic Design (ART 112)
- Visual Persuasion (ART 114)
- Graphic Design Foundations (ART 273)
- Principles of Graphic Design (TECH 212)
- Graphic Design Software & Tech (TECH 492)

ADDITIONAL PROJECTS

- **"Website Clone" + Custom Data/Invoice Management System** [Web App, MERN, Python]
  - **Involvement:**
    - Entire design/development of web app (sole developer)
    - ***contracted job*
  - **Purpose:**
    - Create software that allows for personalized external data viewing, custom data manipulation, and the ability to export/download customized data as spreadsheets (.csv/.xlsx formats) matching a desired template. External data is pulled from a 3rd party website on an automatic (and manual, as desired) basis.

- **Research Study Candidate Aggregator for Commercial EHR System** [Web App, MERN]
  - **Involvement:**
    - Entire development of quick MVP web app (sole developer)
    - ***minimal design required – quick MVP*
  - **Purpose:**
    - Create software that allows for automated research study candidate discovery and aggregation for optometry/ophthalmology-related research studies via automatically creating lists of patients that meet research study criteria based on their EHR data (on a per-practice/per-location basis).
  - **Videos:**
    - One-day MVP example for an ophthalmology company (informal video)
      - https://youtu.be/87G1HbOORtA

- **Automated Door Unlocking System** [Web App, MERN + Google Sheets API + IFTTT]
  - **Involvement:**
    - Entire design/development of web app (sole developer)
    - ***minimal actual design required – single webpage for users. Work mostly involved working with and connecting 3rd party APIs for desired functionality*
  - **Purpose:**
    - Automatically unlock a smart lock door via button click on website.
  - **Feature Highlights:**
    - After making a booking, studio renters can enter their email on a website to fetch all of their bookings (current and historical). When the time that they booked the studio for arrives, the disabled gray "Unlock Door" button becomes clickable and blue, and unlocks the smart lock door upon clicking it

- **Automated Vision Insurance Verifier** (20/20 Vision Express) [Python script/CLI & web scraping]
  - **Involvement:**
    - Sole developer
  - **Purpose:**
    - Automatically scrape an online patient schedule and search for the patients on in-network vision insurances portals to (1) find any insurances they have, (2) verify it is active and they are currently eligible, and (3) pull their insurance benefits and put them all together on a single piece of paper for the patients that day. (Eliminating a lot of "busy work" for the front desk staff)

- **Custom Excel-to-JSON parser for MongoDB insertion** (MineralBuddy) [vanilla Python script]

<u>A couple videos of me talking about some of my apps</u>

Invoice Management System (internal company app)

- [4/2/23: Final Update & Delivery (Week 5 of 5)](#) *(11min, semi-informal)*

MineralBuddy

- [12/18/22: BIG UPDATE (automated data retrieval/updating; on-app db management for admins)](#) *(11min)*
- [1/14/23: Check Calculations](#) *(7min)*