

Matthew Banks

Web Developer

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⟨Projects⟩

Eagle Elementary School

Features: Real Time Chat App, Blog connected to CMS, Survey connected to database, Based on real school curriculum

About: This is a template elementary school site I created which targets progressive school environments becoming more socially distanced. It has a real-time chat for parents and teachers with private messaging and push notifications. The events page is connected to a content management system for school faculty to easily use without the help of a programmer. The survey is connected to a mongodb atlas database that collects responses from parents. The curriculum section is based on real curriculum standards.

Technologies used to build it: React, Javascript, Mongodb, Contentful, Material ui, Styled components, Socket.io, GraphQL, Express, Node, Gatsby

[Code](#) [Site](#)

Matt's Retro Games

Features: PayPal, Search bar, Game product pages, Detail page for each product, Cart checkout with tax (USA)

About: I had a lot of fun with this project because these are many of my favorite retro games. This is like a tribute to games that I am nostalgic for but in the form of a retro game store. I used a real price guide to price each game so they should be very accurately priced in my store. This store template has all the hallmarks of an e-commerce website and it utilizes a sandbox PayPal that can be activated in the future to handle real transactions. I won't be parting with my collection though.

Technologies used to build it: React, Javascript, Bootstrap, Styled components, PayPal, React router

[Code](#) [Site](#)

[Link To Portfolio Projects Section](#)

⟨Work Experience⟩

Web Developer

Jan 2019 – Present

Self Taught

- Code every day
- Combine multiple standalone projects into one practical solution with applied features and a real world theme
- Build web applications for my professional portfolio and make templates for potential freelance work
- Use my research skills to learn and apply

Teaching Assistant

Aug 2015 – Dec 2017

University of Connecticut

Department of Molecular and Cell Biology

Storrs, CT

- Teach three lab and discussion sections per week to undergraduate students; 20-25 students per class
- Help students through biology experiments, some involving enzyme activity and gel electrophoresis
- Taught Biology 1107 and Genetics 2410; giving/preparing lectures

Technician

Feb 2014 – Feb 2015

Aerotek (3M Purification, Temporary)

Meriden, CT

- Chemical formulations for production of high grade nylon water filters and QA
- Charge solution formulation and other solution preparation
- Responsibility for maintaining and monitoring a chemical room containing methanol, formic acid, sodium hydroxide, and other chemicals
- OSHA regulated environment

Critical Components Manufacturing Associate 1

Aug 2010 – May 2011

Reitman Personnel (454 Life Sciences, Temporary)

Branford, CT

- Preparing DNA Capture Beads for commercial distribution
- Processing experimental data with Excel for production records
- Running assays on products in process, such as enzyme activity assays
- Working as part of a team to meet strict customer deadlines and test results for research and development

⟨Education⟩

University of Connecticut, Storrs, CT
Master of Science in Molecular and Cell Biology-Genetics and Genomics

December 2017

Research: Developmental Biology; cell lineage and transcriptional profiling of select tissues in mice

Central Connecticut State University, New Britain, CT
Bachelor of Science in Biomolecular Sciences-Biotechnology,

December 2013

Research: Genetics-RNA Editing in honey bees

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