Andrew **VanNess**

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Work Experience

Eastern Research Group, Inc.
Lexington, MA

WEB DEVELOPER — *May 2018 – Present*

- Converted an outdated natural disaster management website to a full-stack Vue/PHP/MySQL application used by the Department of Homeland Security
- Developed an EPA application for the public to view local water quality data using React and Esri's ArcGIS JavaScript API to produce high-detail informative map visualizations
- Created an internal browser extension for the CDC to automate the process of reporting fradulent COVID-19 preventative products on online marketplaces including Amazon and eBay
- Rebuilt the home page of a government waste management website to reduce page load times by 80% and improved SEO to increase site traffic from 1,000 monthly users to consistently over 20,000
- Achieved 100% test coverage and full WCAG accessibility compliance on a flagship EPA React application

Bridgewater State University
Bridgewater, MA

COMPUTER SCIENCE TEACHING ASSISTANT — *Aug 2017 – May 2018*

- Assigned and graded Python assignments and exams
- Tutored students individually and held weekly sessions with the entire class to review course material

Town of Falmouth
Falmouth. MA

WEBSITE INTERN — *April 2017 – Aug 2017*

- Updated and maintained the town website through a CMS
- Automated time-consuming IT processes by writing a script to identify water bills made in error and flag them for manual review

Projects

How's My Waterway
React, NodeJS, Esri

A MAP-CENTRIC, OPEN SOURCE, PROGRESSIVE WEB APPLICATION THAT PULLS DATA FROM MULTIPLE SYSTEMS AT THE EPA TO PROVIDE A USER WITH AN OVERALL PICTURE OF THEIR WATER QUALITY.

https://mywaterway.epa.gov/

Colorblindly
Chrome Extension

CHROME EXTENSION FOR SIMULATING COLORBLINDNESS ON ANY WEB PAGE FOR ACCESSIBILITY TESTING. 350 GITHUB STARS AND OVER 10,000 WEEKLY USERS. FEATURED ON THE FRONT PAGE OF VICE'S TECH NEWS.

https://uxpro.cc/toolbox/colorblindly/

Jamie Bot
React, NodeJS, MongoDB

DISCORD BOT FOR SEAMLESSLY SEARCHING AND SHARING IMAGES, VIDEOS, NEWS, AND MORE. IN USE BY OVER 125,000 MEMBERS ACROSS 1,000 COMMUNITIES.

https://jamiebot.com/

Education

Bridgewater State University
Bridgewater, MA

B.S. IN COMPUTER SCIENCE — *Aug 2014 – May 2018*

Skills

Languages: Vue, React, JavaScript, HTML, CSS, WordPress, PHP, SQL, NodeJS
Tools: Github, GitLab, Invision, Jira, Visual Studio Code, Heroku, Digital Ocean