

# Andrew VanNess

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## Work Experience

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### 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- Converted an outdated natural disaster management website to a full-stack Vue/PHP/MySQL application used by the Department of Homeland Security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 fraudulent 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

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### 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

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### Bridgewater State University

Bridgewater, MA

B.S. IN COMPUTER SCIENCE

Aug 2014 – May 2018

## Skills

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**Languages:** Vue, React, JavaScript, HTML, CSS, WordPress, PHP, SQL, NodeJS

**Tools:** Github, GitLab, Invision, Jira, Visual Studio Code, Heroku, Digital Ocean