

# Jeffrey Smykil

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## Senior Software Engineer

### EDUCATION

#### **BM in Music Education**

**Keene State College** • 01/1999 – 01/2003

With approximately 10 years of experience in software engineering. I have experience with Vue, React, Express, and many other frameworks. I have successfully led teams, worked for some of the largest educational technology (EdTech) companies in the world, mentored and coached junior developers, and been an accessibility champion.

### WORK EXPERIENCE

#### **Discovery Education** • Remote • 05/2023 – Present **Software Engineer (Contract)**

- Streamlined code base to meet WCAG AA standards, leading to VPAT approval and enhanced user experience.
- Performed backlog refinement, taking on features and bugs, eliminating application tech debt.
- Worked with a product team to develop features that met our customer needs, including orientation pages, and curriculum standards utilities.
- Worked with back-end developers to assist the product team with the installation and maintenance of the Pendo platform.

#### **Screencastify** • Chicago, Illinois, United States • 03/2022 – 01/2023 **Senior Software Engineer**

- Led a small team to improve component style libraries using best practices.
- I created CSS in JS linting rules increasing, and enforcing cleanliness in code and code formatting standards.
- Wrote documentation for companies' standards for using Material UI and EmotionJS.
- Created an emailing service using GraphQL, Postgres and asynchronous task workers.
- Created full-stack design and implementation of real-time updates for video analytics.
- Worked on the license management team assisting in the development of the user schema, developing the user-facing interface in React, and writing database seeding scripts.

#### **Encyclopaedia Britannica** • Chicago, Illinois, United States • 07/2017 – 03/2022 **Principal Software Engineer**

- Wrote an in-house analytics platform from scratch. This included front-end, back-end, database, and UI/UX.
- Spearheaded accessibility improvements and fixes saving the company from losing several large contracts.

- Mentored and coached several interns and junior engineers, helping them succeed in the company's environment.
- Communicated and worked efficiently with two sets of contractors and a junior product manager to complete an application for the pre-k market.
- I worked cross-functionally with UI/UX to create new style guides and propagate them across the company using Story Book and other tools. I also helped with design and wireframing feedback along the way.
- Worked with product and back-end developers to create an assessment platform. Integral in system architecture, and API contracts, and wrote a large majority of the front-end code.

## **L2 Interactive** • Bartlett, Illinois, United States • 04/2015 – 07/2017

### **Front End Engineer**

- Built and maintained websites for some of the largest arts organizations in the world, writing custom code and using the companies' proprietary CMS.
- Worked directly with customers to ensure that their needs and visions were being met.
- Was entrusted with working on site with a company in Sydney, Australia to help prototype and launch their website.

## **PointRoll** • Boston, Massachusetts, United States • 05/2014 – 10/2014

### **Software Engineer III, Ad Delivery Developer**

- Integral in creating a web application to process advertising assets into a proprietary advertising format.
- Performed object-oriented refactoring of the application codebase.
- Wrote unit, and functional tests created build tasks, and integrated them into a continuous integration system.

## **Radianse** • 10/2010 – 05/2014

### **Front End Developer**

- Planned and created a web-application for tracking equipment, patients, and staff.
- Involved in front-end development, service contract creation, implementing front-end functional testing, as well as integrating client-side templating infrastructure.
- Created front-end for displaying timelines of asset locations, real-time mapping solutions.
- Responsible for uniting the front end into the continuous integration workflow.
- Built a real-time dashboard and infrastructure tracking network connection health of over a thousand locations.
- Created a real-time push interface for RFID card reading kiosks.

## SKILLS

**JS Frameworks and Technology:** JavaScript, ECMAScript 6, TypeScript, ReactJS, VueJS, KnockoutJS, MobX State Tree, Redux, Node.js, Express, SailsJS, WebSocket

**Styling Frameworks and Tooling:** CSS 3, Responsive Design, SCSS, Stylus, Bootstrap, EmotionJS, Foundation, Material UI, Storybook

**Database Technology:** GraphQL, Hasura, MongoDB, MySQL, PostgreSQL

**Other:** W3C Accessibility, Mentoring, Web Applications, User Experience, User Interface Design, XSLT

## CERTIFICATIONS

### **K-12 Instrumental Music Education** • 01/2004 – 06/2024

State of New Hampshire Board of Education

### **JavaScript Algorithms and Data Structures**

freeCodeCamp

### **JavaScript Foundations Professional Certificate by Mozilla**

Mozilla

### **Introduction to Web Accessibility WCAG 2.1**

Udemy

### **JavaScript Essential Training**

LinkedIn

## VOLUNTEERING & LEADERSHIP

### **Sciants Media** • 03/2022 – Present

Outreach Coordinator

- Coordinating science outreach efforts
- Development of multi-media assets
- Moderation and formation of inclusive vision statements