



# Tyrus Malmström

Software Engineer, Frontend

## Profile

With over six years of experience, I am a passionate and adaptable software engineer who produces robust, reusable, and scalable code. I am enthusiastic about learning and willing to assist any development team in upholding exceptional coding standards. In previous roles, I implemented front-end features to improve UI/UX and spearheaded multiple codebase migration projects that enabled them to conform to modern standards.

## Experience

### Senior Software Engineer at WeVideo, Lake Forest

August 2022 — Present

#### Key Qualifications & Responsibilities

- Refactoring of major authentication workflows from major providers.
  - SAML and SSO
- Updated microservice domain logic to communicate with WeVideo's back-end API.
- Prototyping the implementation of internationalization within certain microservices.
- Implemented custom domain logic to allow LTI 1.1 legacy content to be migrated automatically.

#### Key Achievements

- Piloted the initial concept of integrating PlayPosit within WeVideo. This was later named WeVideo Interactivity.
  - Worked on transitioning and integrating PlayPosit's code base within WeVideo's.
  - Includes the transition from BitBucket to GitHub.
- Improving legacy PHP code base to conform to modern standards.

### Full-Stack Developer at PlayPosit, Denver

March 2021 — August 2022

#### Key Qualifications & Responsibilities

- Collaboratively worked on a small development team to create, maintain, and refactor application microservices.
- Implementation of new features, engaging users with interactive learning with video.
- Implementation of a complete back-end REST API.

#### Key Achievements

- Initiated the project that handled implementing the [LTI 1.3](#) specification within our application.
  - Handled migrating legacy LTI 1.1 content over to LTI 1.3 for many clients.
- Upgrading styling framework for specific microservices from Vuetify 1 to Vuetify 2+.
- Addition of unit-testing infrastructure and unit-tests.
- Implementation of new video playback techs for the player microservice.

## Details

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## Links

- [My Website](#)
- [LinkedIn](#)
- [Github](#)
- [Dev.to](#)
- [app.daily.dev](#)
- [X \(formerly Twitter\)](#)

## Technical Skills

- Code Review
- HTML 5 / CSS
- JavaScript / TypeScript
- Angular
- Vue (2.x)
- React
- Node.js
- PHP
- Git
- Jenkins
- Python
- C++
- AWS
- MySQL

## Hobbies

- Turning ideas into reality with code.
- Reading source code on GitHub.
- Collaborating with other individuals on side-projects.

Generally speaking, I enjoy taking on challenging personal projects to learn and improve my skillset continuously.

- Identifying bottlenecks and improving the player microservice performance, allowing it to handle 5,000+ concurrent users with minimal downtime.

## **Front End Engineer at bulb, Inc., Fort Collins**

June 2017 — February 2021

### **Key Qualifications & Responsibilities**

- Maintained front-end and back-end code base to follow current web technologies and programming practices through continuing education, reading, or participation in professional conferences, workshops, or groups.
- Organized and united the front-end build process to distribute finalized code to production instances.
- Collaborated with different departments on problems uncovered by testing or customer feedback and corrected problems or referred problems to appropriate personnel for correction.
- Co-authored and composed new front-end features to create a seamless and fluid user experience.

### **Key Achievements**

- Spearheaded the project for our application framework migration from AngularJS to Angular.
- Forged an audio recording feature compatible with most browser types and versions utilizing webRTC APIs.
- Integrated third-party WYSIWYG rich text editor, CKEditor Version 5.

## **🏠 Internships**

### **Information Technology Systems Intern at Merrick & Company, Greenwood Village**

August 2015 — August 2017

- Drove continual improvement to system architecture by refactoring old legacy code.
- Incrementally updated back-end servers to provide real-time updated information towards the client.
- Improved intranet functionality and maintained company databases using Microsoft SQL Server.
- Influenced the decision for what CMS to use company wide.

## **🎓 Education**

### **Bachelor of Science, Computer Science, Colorado State University, Fort Collins**

August 2013 — May 2017

Grade: 3.7 GPA

Graduated with High Honors and was a member of the National Society of Collegiate Scholars.