

# Brian H. Kuzma

Software Engineer | Eugene, OR | Remote | (734) 678-5968

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## TECHNICAL SKILLS

**Front-End** | React, JavaScript (ES6), HTML5, CSS3, Bootstrap, Material UI, Tailwind

**Back-End** | .Net, Node.js, Express, SSL, MySQL, PostgreSQL, Sequelize, MongoDB, Mongoose, RESTful API, NGINX, Redis, ETL, Ruby on Rails

**Testing/Deployment** | React Testing Library, Docker, Jest, Mocha, Chai, AWS: EC2, Azure, LoaderIO, newRelic

**Languages** | C#, Java, JavaScript, TypeScript, Python, Ruby, SML

**Developer Tools** | .Net, Vim, Nano, Git, GitHub version control, npm, Webpack, Babel, Agile Methodology, TDD

**Certifications:** AWS Cloud Practitioner

## HACK REACTOR SOFTWARE APPLICATION DEVELOPMENT EXPERIENCE | 2022-2023

**Front-end Developer** | E-Commerce Front End | 12/2022 | [github.com/Atelier-GoldenEye](https://github.com/Atelier-GoldenEye)

**React, Express, Babel, Webpack, React Testing Library, Jest**

*Product page web app connected to microservice architecture back end*

- Developed a responsive and customized front-end interface using React and Express, successfully met client specifications and achieved stretch goals
- Optimized performance and reduced load times for the Colorful Paint feature, achieved a 60% improvement from 3.62 to 1.43 seconds
- Enhanced platform functionality by adding search filter using consumable API
- Optimized development through creation of unit and integration tests with React Testing Library
- Achieved a 96 on Chrome Dev Tools Lighthouse, enhancing platform inclusivity and usability

**Back-end Engineer** | E-Commerce System Design | 3/2023 | [github.com/2207-SDC-LEDA/reviews](https://github.com/2207-SDC-LEDA/reviews)

**MongoDB, Express, Node JS, Redis, NGINX, newRelic, Jest**

*Microservice back end for reviews endpoints for Atelier e-commerce client*

- Optimized platform performance and scalability by horizontally scaling using NGINX and Redis cluster, achieved a throughput of 3000 RPS with an 86 ms response time.
- Diagnosed and reduced latency bottlenecks across system with newRelic to effectively scale application
- Improved data management and accuracy by developing an ETL process for MongoDB collection aligned to client specifications in order to migrate 5.7M data points.

**Full Stack Engineer** | Sound-Crate | 4/2023 | [github.com/rpp-kraken/SoundCrate](https://github.com/rpp-kraken/SoundCrate)

**React, Material-UI, Tone.js, Express, PostgreSQL, Docker**

*Music creating, mixing, and sharing web application*

- Co-created UI wireframes exceeding client expectations with “viral feel” mock-ups using proto.io
- Streamlined styling for the app by co-designing Material-UI theme
- Enhanced application functionality by building microphone recording capabilities, integrated into mixing and creation features, providing users with a more comprehensive experience
- Improved overall platform functionality and security by developing essential platform features, including “drawer” menu functionality, profile editing and publishing, and an HTTPS server

## PERSONAL SOFTWARE APPLICATION EXPERIENCE | 2018 to present

- Student data analysis and visualization with Python Plotly
- International Baccalaureate CAS tracking app with .NET
- Gamified economics tutoring web application | React, MongoDB, Express, AWS | [www.econproblems.com](https://www.econproblems.com)

## PROFESSIONAL EXPERIENCE

**Eugene School District 4j** | Eugene International High School Head Teacher

2014 - 2023

- Successfully led IB World School for 5 years including Covid Pandemic, increasing student census
- Managed a team of 29 educators and support staff, fostered a culture of professional development and growth by encouraging open communication, and prioritizing cross-functional projects
- Designed and facilitated professional development sessions for staff focused on promoting anti-racism, universal design for learning, and integrated curriculum

## EDUCATION

**Hack Reactor** | Certificate in Advanced Software Engineering

2023

**Colorado College** | Masters of Arts in Education

2010

**Earlham College** | Bachelors of Arts | History | Departmental Honors

2008