

Ryan Cho

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EDUCATION

University of Washington, Information School

Seattle, WA

Pursuing Bachelor of Science in Informatics Degree, Concentration: Software Development

Graduation: Jun 2026

Cumulative GPA: 3.96

Coursework: CSE 373: Data Structures and Algorithms, INFO 340: Client-Side Dev, INFO 330: Databases and Data Modeling

WORK EXPERIENCE

Software Engineer - Erie Insurance

Erie, PA

Intern

May 2024, Aug 2024

- Built and optimized unit testing scripts for incremental data loads using SQL, MarkLogic, and XQuery, enhancing the accuracy and efficiency of data migration processes
 - Improved migration accuracy and efficiency by **11%** through the testing of outdated and null documents
- Led efforts to optimize high-usage scripts, improving overall system efficiency by reducing runtime by **20.1%**, achieving an average reduction of **50ms** per execution
- Conducted API regression and load testing via SoapUI on **1,500** documents, ensuring robust and reliable API performance across all tested URI's
- Successfully executed the migration of over **10,000+** legacy data files to AWS S3 Data Lake via AWS Redshift by developing scripts to verify proper data structure and transfer

Data Analyst - Hazing Info

Seattle, WA

Intern

Oct 2023, Present

- Developed and implemented automated scripts in JavaScript, processing over **5,000** data entries to enhance data sorting and organization for the hazinginfo.org beta and v2 launches
- Optimized backend efficiency by streamlining relational database operations, reducing storage usage by **20%**, and improving overall system performance

PROJECTS

Sports News: OpenAI GPT API, Vite, Redux, JSX, Tailwind CSS

Jun 2024

- Developed a website leveraging OpenAI's GPT API via Rapid API to provide users with summarized sports articles
- Implemented Vite for optimized build times and development workflow and integrated Redux for state management
- Rendered a responsive, modern UI using JSX for interactive components and Tailwind CSS for styling

Seoul Bites: React Native, NativeWind, Redux, Sanity

May 2024

- Developed mobile application using React Native and NativeWind to help users find nearby Korean restaurants
- Utilized Sanity for a no-code interface, enabling clients to easily edit and manage data
- Employed Redux for state management, ensuring seamless and responsive app performance

Persona Playground: React, Firebase, HTML/CSS

Mar 2024

- Developed a React website with a Firebase backend enabling users to take and create personality tests
- Implemented robust front-end features and ensured seamless integration with the back-end for efficient data handling and user interaction

ACTIVITIES

TEDxUofW, Full-Stack Web Developer

Oct 2024, Present

- Developed a full-stack website for the 2024-2025 TEDxUofW event using Next.js and Node.js, collaborating closely with the UX/UI design team to ensure a user-centered experience and cohesive design

Washington Hyperloop, Front-End Developer

Oct 2024, Present

- Spearheaded replatforming initiative as the lead developer, utilizing Next.js, Tailwind CSS, and Jira to craft a reimagined brand identity developed by the Hyperloop design team

Web Impact, Front-End Developer

Sep 2023, Aug 2024

- Implemented Next JS and Tailwind CSS to develop a functional website for the UW RSO, Viable Veganism
- Increased user interaction and traffic by **20%** at <https://viable-veganism.vercel.app/>

KEY SKILLS

Programming Languages: Java • JavaScript • React/ReactNative/Next.js • Kotlin • Python • SQL • R • XQuery

Tools/Other Skills: Data Structures and Algorithms • MarkLogic • Agile Methodology • Linux • XML • MongoDB • Collaborative Communication • Excel • Database Management • Team Building • Cross-functional • Notion • Airtable