

Keshav Chawla

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Skills

Languages: C++, C, Kotlin, JavaScript, TypeScript, R, Racket

Frameworks/Libraries: React, Remix, Next.js, Gatsby, GSAP, Three.js, Marionette.js, Bootstrap, Sass, Less, Tailwind CSS

Data/Tools: Git, GH Actions, Cypress, Jest, LaTeX, Phabricator, Confluence, Figma, Jira, Netlify CMS, Vercel

Work Experience

Wattpad | Associate Web Engineering

May 2022 - Aug 2022

- Developed core web platform features and components, both on the client and server using modern web frameworks (TypeScript, React, Remix, Webpack, and JavaScript) to serve over 90 million monthly users
- Architected web interfaces that utilized APIs and backend services to handle traffic at scale (over 2 billion daily requests)
- Prototyped essential services with next-generation frameworks (Remix) validating and harnessing improvements in error handling, caching, hooks, E2E testing, and Datadog application performance monitoring

Axonify | Software Developer (JavaScript)

Sept 2021 - Dec 2021

- Programmed production code features utilizing various JavaScript frameworks (Marionette.js, Backbone.js, and jQuery)
- Increased unit test runners (Jasmine) speeds by 25% while also increasing code coverage utilizing multi-project builds
- Incorporated MVC design patterns and best practices in the implementation and release of user-facing products

Jam3 | Software Developer Intern

Jan 2021 - Apr 2021

- Created and launched projects including [Wild Cities](#) (FWA of The Day Award) for global clients at a digital agency
- Enhanced practices and internal tooling to improve accessibility in projects achieving consistent 90+ lighthouse scores

UW Faculty of Mathematics | Online Learning Assistant

May 2020 - Aug 2020

- Assembled a [LaTeX conversion application](#) using PHP, Python, and shell scripts to help instructors convert course content
- Facilitated deployments to servers for faculty use while enforcing upload size limits, data cleanup, and file deletion

Projects

Digital NFC Vinyl Player 📄 • C++, C, Node.js, React, CSS, Make

- Utilized a Raspberry Pi and an NFC reader to scan NFC tags and connect to a user's Spotify account to play the song/album associated with the NFC tag to a device or speaker

Todoloo Todo App 📄 • Kotlin, Gradle, SQLite, jpackage

- Developed a desktop-class (MacOS & Windows) to-do application along with a SQLite database and a custom-built API

Raspberry Pi MagicMirror 📄 • Google Assistant SDK, Git, JavaScript, RSS Feeds

- Engineered an interactive smart mirror to display local news, trivia, live tweets, and voice commands functionality

Extra & Co-Curriculars

SAF Student Investment Fund | Junior Portfolio Manager

Senior Analyst

Junior Analyst

Jan 2023 - Present

Sept 2022 - Dec 2022

May 2021 - Aug 2021

- Organized a team of students to manage a C\$400,000 portfolio of Canadian and U.S. equities
- Performed financial analysis on TMT and Consumer Discretionary equities (discounted cash flow, comparable companies, historical multiples) to identify potential investment opportunities

Mathematics Endowment Fund | Funding Council Faculty Representative

Jun 2020 - Aug 2020

- Served as part of council to approve \$50K-\$150K in funding per term for various math faculty-student initiatives

Education

University of Waterloo (4A)

90% Cumulative GPA

Bachelor of Computing and Financial Management (Candidate), Honours (Co-op)

Apr 2024