

Keshav Chawla

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Work Experience

Wattpad | Software Engineering Intern

May 2022 - Aug 2022

- Developed core web platform features and components, both on the client and server using modern web frameworks (TypeScript, React, Remix, and Webpack) to serve over 90 million monthly users and 2 billion daily requests
- Increased developer builds, code validations, and testing coverage pipelines by 80% utilizing GitHub Actions
- Prototyped essential services with next-generation frameworks (Remix), validating route-level error handling, caching, E2E testing, and Datadog performance monitoring and achieving 500% of quarterly OKRs
- Harnessed Remix data parallelization and eliminated heavy resources to reduce prototyped first contentful paint by 17%
- Architected interfaces including messaging, login flow, and profile followers that utilized APIs to handle traffic at scale

Axonify | Software Developer Intern (JavaScript)

Sept 2021 - Dec 2021

- Programmed production code features utilizing various JavaScript frameworks (Marionette.js, Backbone.js, and jQuery) cross-browser and cross-platform development on mobile and desktop
- Increased unit test runners (Jasmine) speeds by 25% while also increasing code coverage utilizing multi-project builds
- Incorporated design patterns to extend user-facing products such as the messaging suite and admin report generator

Jam3 | Software Developer Intern

Jan 2021 - Apr 2021

- Created and launched projects utilizing Next.js, React, and Redux including [Wild Cities](#) winning several awards (FWA of The Day Award, The ADCC Bronze, and Webby Award Nominee for Best Use of AR) for global clients at a digital agency
- Enhanced practices and internal tooling to improve accessibility in projects to achieve consistent 90+ lighthouse scores
- Designed 3D animations utilizing WebGL via Three.js to create hyperrealistic renders and animations in the browser

UW Faculty of Mathematics | Online Learning Assistant

May 2020 - Aug 2020

- Implemented a [LaTeX conversion application](#) using Python and PHP to help instructors convert course content
- Achieved a 0.6 ms desktop first contentful paint and perfect (100%) lighthouse scores for performance & best practices
- Assembled a proof-of-concept Django web application to showcase project feasibility and ensure system executability

Projects

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

- Utilized a Raspberry Pi and an NFC reader to scan custom-made mini-albums which then play the associated songs
- Integrated Spotify's RESTful Web API and Web Playback SDK to authenticate and connect to a user's device/speaker

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

- Engineered an interactive smart mirror to display local news, trivia, and live tweets with voice command functionality
- Engaged with open-source projects and communities like MagicMirror module builders and contributed back by helping other developers with tutorials and guidance

Todoloo Planner App 📄 • Kotlin, Gradle, SQLite

- Created a macOS & Windows planner application with the ability to group, drag and drop, sort, and filter tasks
- Architected a custom server with Spring to communicate data between the client and an SQLite database

Skills

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

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

Tools: Git, GitHub Actions, Cypress, Jest, LaTeX, Phabricator, Confluence, Figma, Jira, Netlify CMS, Vercel

Education

University of Waterloo (4A)

90% Cumulative GPA

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

Apr 2024