

ARYAN DEV SHOURIE

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SUMMARY

Frontend Engineer specializing in building performant, intuitive, and responsive web applications across **browsers and Smart TVs** (LG webOS, Samsung Tizen). Experienced in **modern JavaScript, React, Next.js, UI engineering, component architecture, accessibility, and streaming-app UI** with platform-specific performance optimization. Builds **AI-powered interfaces** including LLM integrations and AI agents. Improves UX, reduces load times, and develops scalable frontend systems.

SKILLS

- **Frontend:** JavaScript (ES6+), TypeScript, React JS, Next JS, HTML5, CSS3, SCSS, Smart TV video player experience, Tailwind CSS, Redux, WCAG Accessibility Guidelines, Accessibility (a11y)
- **AI & Agents:** AI Agents, Large Language Models (LLMs), Hugging Face Ecosystem, smolagents, Tool-using Agents, Thought-Action-Observation (ReAct) Loop
- **Smart TV Development:** LG webOS, Samsung Tizen, Tizen Studio, webOS CLI
- **Backend (for frontend):** Node, Express.js, RESTful APIs, GraphQL
- **Cloud & DevOps:** AWS S3, CloudFront, Docker, Firebase, Azure, Google Cloud Platform
- **Databases:** MongoDB, MySQL

EXPERIENCE

Associate Software Engineer — Frontend — Web & Smart TV

- *Xperi Inc. (Remote)* *July 2024 – Present*
 - Improved navigation responsiveness by **25%** for **PayTV/TiVo** Smart TV apps on **Samsung Tizen and LG webOS** by engineering optimized UI components.
 - Increased ad revenue by **18%** by architecting a cross-platform Dynamic Ad Insertion (DAI) system, improving ad-load reliability and enabling personalized targeting across global regions.
 - Developed the **Home Page Hero** feature, a highly UI-centric advertising module displaying ads from multiple providers across browsers and Smart TVs, improving ad visibility and generating **15% uplift in homepage ad revenue**.
 - Reduced unnecessary re-renders by **30%** across a large-scale React codebase by refactoring legacy class components to functional components with Hooks.

Software Engineering Intern — Frontend

- *Xperi Inc. (Remote)* *July 2023 – July 2024*
 - Developed modular, responsive **React UI components** optimized for laptops and Smart TV screens; improved input latency and navigation performance on TV devices.
 - Improved code quality by integrating **ESLint + Prettier**, raising code consistency and reducing PR cycles.
 - Used AWS S3 + CloudFront to deploy static applications with reduced load-latency and global CDN distribution.
 - Reduced app launch latency by aggregating multiple API calls into a **unified Node.js/Express endpoint**, eliminating redundant network roundtrips.
 - Worked closely with Tizen Studio and webOS SDK to debug, build, and deploy streaming apps directly on Smart TV hardware.

CERTIFICATIONS

- **Fundamentals of Agents - HuggingFace:** Completed Unit 1 of the Hugging Face Agents Course, learning the fundamentals of AI agents, LLM-powered systems, agent tool usage, and the Thought-Action-Observation reasoning cycle. Built a functional AI agent using the **smolagents** framework capable of performing tool-based reasoning tasks. 📄*
- **Introduction to Model Context Protocol - Anthropic:** Completed the Introduction to Model Context Protocol course by Anthropic, learning how to design interoperable AI systems using MCP, enabling structured context exchange, tool orchestration, and seamless integration across LLM-powered applications. 📄*

PROJECTS

- **PromptAI - Full-Stack AI Prompt Sharing Platform:** Developed a full-stack platform enabling users to create, edit, delete, and discover AI prompts with keyword search and tag-based filtering. Implemented Google OAuth authentication with user profiles to manage prompt ownership and personalized content. Designed a responsive UI with optimized prompt rendering and instant search interactions for smooth browsing of community prompts. **Tech:** Next.js, React.js, JavaScript, Tailwind CSS, MongoDB 📄*

EDUCATION

- **Chitkara University** Punjab, India
B.E. Computer Science; CGPA: 9.80 *2020 – 2024*