

Tuguldur “Tugu” UlaMUndrakh

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PROFESSIONAL SUMMARY

Software Engineer with 9+ years of experience building scalable web, mobile, and cross-platform applications using React, React Native, and TypeScript. Strong background in frontend architecture, shared UI systems, accessibility, developer tooling, and enterprise application development. Experienced in applying AI-assisted coding workflows to accelerate implementation, debugging, testing, and code review.

PROFESSIONAL EXPERIENCE

Software Engineer – HP

Apr 2022 – Present

- Architected and maintained a shared React UI Toolkit adopted across 109 enterprise micro-frontend repositories, supporting HP applications used by millions of users globally across Windows, macOS, iOS, and Android.
- Built a Playwright-based local visual-regression workflow that identifies affected Storybook stories and generates baseline, current, and diff reports across light, dark, and Windows High Contrast modes.
- Designed scalable theming and design-token infrastructure for the shared UI platform, improving consistency and maintainability across a large ecosystem of enterprise applications.
- Applied AI-assisted coding workflows, to accelerate implementation, debugging, and test development for internal developer tooling while validating changes through automated tests and code review.

Software Engineer – Breathe Mongolia

Nov 2020 – Aug 2021

- Built a data-driven web platform using React, TypeScript, GraphQL, and headless WordPress for a UNICEF-funded initiative.
- Integrated and normalized data from 50+ external APIs, implemented calculation algorithms, and designed real-time data flows for air quality monitoring.
- Developed geospatial visualization systems to support real-time analysis and decision-making.

Frontend Developer – Digitalworks

Mar 2019 – Nov 2020

- Redesigned and engineered a high-traffic HR platform, improving performance and increasing user engagement by 50%.
- Built and maintained web and mobile systems for financial institutions using React, React Native, and Redux, supporting multiple enterprise clients.

Software Engineer – Metawise Solutions

Jun 2016 – Feb 2019

- Developed custom WordPress themes and client-facing web applications, including business websites, e-commerce platforms, and ticket-ordering systems with payment gateway integrations and custom backend functionality.
- Built a real-time monitoring system for Mongolia’s largest bank using Firebase, React, and React Native, handling live data updates across platforms.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, Java, PHP

Frontend: React, React Native, Next.js, HTML5, CSS/SCSS, Tailwind CSS, Storybook

Backend & Data: Node.js, Spring Boot, REST APIs, GraphQL, Firebase, MySQL, WordPress

AI-Assisted Engineering: OpenAI/Codex, Claude, Gemini, Ollama, Prompt Engineering, Agentic Coding Workflows, AI-Assisted Debugging, Testing, and Code Review

Engineering: Accessibility, Design Systems, Design Tokens, Cross-Platform Architecture, Micro-Frontends, Agile/Scrum, Jira, GIT, CI/CD

EDUCATION

Master of Computer Science

Maharishi International University (USA) – Aug 2021 – Jun 2023

Bachelor of Software Engineering

International University of Ulaanbaatar – Sep 2012 – Jun 2016