ENKHMUNKH ENKHBAYAR

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EDUCATION

Carnegie Mellon University | Qatar, Doha
Bachelor of Science in Computer Science |GPA: 3.52/4 | May 2028

COMPUTER SKILLS

Programming Languages: C/C++, Python, Assembly, TypeScript, JavaScript, HTML5, CSS, Standard ML
Frameworks & Libraries: Node.JS, React, Next.js, Gatsby, Express, NestJS, Serverless, Expo, ReactNative**,** Three.js
Databases: MySQL, REST, GraphQL, WebSockets, MongoDB, Firebase, Supabase, GraphQL
Tools & Platforms: Git, Gitlab, AWS, Google Cloud, CI/CD, XCode, Postman, ESLint, Jest, VSCode, Unix, WebRTC
Animations & Effects: Framer Motion, Locomotive Scroll, GSAP
Design & Content Management: Figma, Contentful
Web Performance: Lighthouse, Technical SEO (schema, sitemaps, robots, on-page optimization), Core Web Vitals
Methodologies: Multi-functional requirements engineering, system design, data modeling, Agile method

EXPERIENCE

Web Designer/Developer | Slide Tracking at Carnegie Mellon University | Jan 2025 - Present
- Engineered a secure, role-based research platform with multi-level access control, emphasizing data integrity
- Led weekly sprint meetings with a faculty advisor and incorporated student user feedback into iterative releases, managing a prioritized backlog and acceptance criteria in an agile environment.
- Translated research requirements into functional specifications and engineering tasks.
- Delivered incremental features focused on data integrity, usability, and compliance with lab documentation needs.

Web Designer/Developer | Freelance | Mar 2024 - Present
- Designed, engineered, and deployed multi-page responsive applications with Next.js and TypeScript.
- Implemented secure payment flows with server-side validation, webhook handling, and idempotent order processing; added an RBAC admin dashboard for end-to-end content and inventory management.
- Optimized application performance and Core Web Vitals through advanced web performance techniques (code-splitting, caching, prefetching, image optimization).

Software Engineer | Pinecone Studio | Feb 2022 - Oct 2023
- Handyman Service: built tax bill creator and automate mailer; devised admin webpage
- RideShare: developed end to end mobile application; integrated real-time tracking; constructed front-end with React Native; started as a one-man team and got 3 employees under for further development after initial design and integration; got promoted after launch within Mongolian largest group company MCS with +12000 employees
- Pinecone.mn: integrated self-learned advanced-level web animations (Locomotive Scroll, Framer); built home and other front-end pages
- Alumni Portfolio: created PDF file reader; implemented searchable student list and dynamic student page front-end
- HRMS: Integrated organization chart; devised user role management system

LEADERSHIP ACTIVITIES

Runner up | Lifelines Hackathon | Mar 2025
- Led a team of 4 to develop an open-source crisis response platform for aid providers and affected communities.
- Built a resilient distributed server enabling fault-tolerant data exchange under crisis conditions
- and integrated an AI-powered health assistant.
- Built a custom database infrastructure to provide seamless access for ongoing and future projects.

Co-Founder | Tuuri.mn | Jan 2022 - 2024
- Led cross-functional team of 6, applying Agile methodologies and system architecting to build Mongolia's first interactive history education platform.
- Reached over 2000 individuals in a collaboration with a well-known professor