Khatnaa Batbold

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Summary

- 8 years of professional experience building responsive and performant web applications using modern technologies like HTML5, CSS3, JavaScript (ES6+), React, Redux, TypeScript, Node.js, and Express
- Strong proficiency in front-end frameworks and libraries such as ReactJS, React Router, and Redux with deep understanding of component-based architecture and state management
- Deep knowledge of React Context API, custom hooks, and Redux middleware (including Thunk) for managing global state, handling asynchronous actions, and orchestrating side effects
- Expertise in building scalable UI systems with reusable components and styling conventions using BEM, CSS Modules, and preprocessors like SCSS
- Solid understanding of accessibility (a11y) best practices, with a focus on building inclusive interfaces that meet WCAG standards
- Well-versed in modern authentication and authorization flows including JWT, and OAuth 2.0
- Experienced in back-end development using Node.js, with RESTful API design, server-side rendering, and integration of third-party APIs, and building scalable microservices architectures for modular and maintainable applications
- Solid grasp of web security practices, including protection against XSS, CORS, and SQL injection vulnerabilities
- Hands-on experience writing unit and integration tests with Jest and Cypress ensuring code quality and reliability
- Experience with Agile/Scrum methodologies, CI/CD pipelines, and collaborating via Git, GitHub, and JIRA
- Highly effective communicator with a track record of fostering collaboration and clarity across cross-functional teams
- Self-motivated, adaptable, and able to manage multiple priorities in fast-paced environment

Technical Skills

Languages: JavaScript, TypeScript, Java, Python
Databases: SQL (MySQL, Postgres, SQL Server), NoSQL (MongoDB), Redis, ElasticSearch
Frameworks: Node, React, Next.js, Express, Spring Boot, Flutter, FastAPI, Maven, Storybook
Testing and tooling: Jest, Cypress, Playwright, JUnit, Webpack, Babel
Cloud and DevOps: AWS, GCP, Docker, Packer, GitHub Actions, Terraform

Experience

Full Stack developer – Know Corp   Location: Reseda, CA (Remote) Jan 2024 – Present

Project: AI-Powered Learning App

Responsibilities:

- Designed and developed a responsive Single Page Application (SPA) using React.js, Redux, and TypeScript, featuring a home feed with content cards, user dashboards, and progress tracking
- Integrated OpenAI APIs and custom ML models to fetch context-aware mnemonic content
- Built dynamic flashcard interfaces with React Hooks, ensuring performance and reusability
- Developed client-side routing for smooth navigation across key user flows, enhancing the SPA experience
- Implemented an infinite scroll search experience for content discovery, reducing page load interruptions
- Developed secure, token-based authentication flows using JWT and handled session management with Redux

- thunk middleware
- Implemented a semantic search backend using FastAPI, leveraging dynamically generated vector embeddings to deliver relevant results from ElasticSearch
- Automated the synchronization of new embeddings via Firebase Cloud Functions, enabling scalable search across 680K+ entries
- Wrote unit and integration tests using Jest, contributing to a 90%+ test coverage across the codebase
- Worked in an Agile startup environment, participating in sprints, demo presentations, and daily standups to ensure alignment between product and engineering

Full Stack developer – care.com   Location: Boston, MA May 2023 – Sep 2023

Project: Caregiver Engagement Platform

Responsibilities:

- Developed and maintained a tabbed dashboard interface using React.js, TypeScript, Redux, and Material UI
- Collaborated with cross-functional teams to implement features that improved the caregiver hiring experience, including status tracking
- Implemented Redux state architecture for managing multiple data slices (applicants, favorites, hired) with loading states, pagination, and API integration
- Integrated form state with backend APIs and managed persistence across steps to support draft saving and seamless navigation
- Collaborated with product and design to implement conditional rendering logic for dynamically showing service-specific questions
- Ensured WCAG-compliant accessibility across UI features by implementing ARIA roles, keyboard navigation, and semantic HTML
- Improved application performance and stability by integrating Web Vitals tracking with Sentry and optimizing critical rendering paths, resulting in a faster Time to Interactive (TTI) and reduced frontend error rates

Application developer - Rio Tinto Mongolia   Location: Ulaanbaatar, Mongolia Apr 2018 – Aug 2022

Project: Internal Ticketing Management System for Project Services

Responsibilities:

- Contributed to full stack development using React, Node.js, Express, and PostgreSQL
- Built responsive front-end interfaces with Material UI, optimizing usability for both finance personnel and project managers
- Designed secure document upload workflows with size/type validation for handling sensitive attachments
- Integrated with SharePoint through Microsoft Graph API to centralize ticket attachments
- Developed role-based access controls and integrated OAuth2/JWT authentication for secure operations
- Built RESTful APIs to support the document submission, status tracking, and multi-stage approval workflows
- Collaborated with cross-functional teams to ensure compliance with internal audit and security requirements
- Self-initiated the development of low-code automation using Microsoft Power Platform to complement the core application, enabling parallel processing of supplementary requests

Project: Global shipment tracking system

Responsibilities:

- Developed interactive and responsive user interfaces using HTML5, CSS3, JavaScript, and jQuery
- Built shipment tracking dashboards with dynamic data displays using AJAX and JSON to fetch real-time status updates
- Designed modular UI components for tracking milestones, estimated delivery timelines, and exception alerts
- Collaborated with backend developers to integrate RESTful APIs for shipment location data and document uploads
- Implemented user-friendly forms and validation logic for booking entries, customs data, and delivery confirmations
- Ensured cross-browser compatibility and mobile responsiveness using Bootstrap and custom media queries
- Implemented graceful error handling with intuitive fallback UIs to ensure a seamless user experience even during service interruptions

Projects

SECURE PROMPT - AI SECURITY TOOL | *FastAPI (Python), Transformers, JavaScript*
- Designed and developed a browser extension to prevent accidental exposure of sensitive data in code snippets submitted to ChatGPT and DeepSeek
- Implemented a FastAPI backend service for real-time sensitive data detection and classification
- Built and trained a token classification model (ML) using CodeBERT achieving 99% accuracy in detecting API keys and credentials

MYDEAR - CLOUD ARCHIVE PLATFORM | *React (JavaScript), Express (Node), AWS S3*
- Designed and deployed a full-stack application using React (Vite) and Express for archiving childhood memories, featuring custom uploads, notes, and tags for fast retrieval and search
- Developed and integrated RESTful APIs with Express and utilized AWS S3 for secure, scalable media storage
- Implemented OAuth 2.0 authentication with third-party providers to enhance user experience and ensure secure login workflows, adhering to industry best practices for data protection and privacy

Certifications

AWS Certified Developer - Associate (View [Badge](#))

Education

Northeastern University

Master of Science in Information Systems   *Boston, MA*