Khatantuul Batbold

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Education

Master of Science in Information Systems

Northeastern University | Boston, MA   Aug 2022 - Dec 2024

Courses: Operating Systems, Network Structures and Cloud computing, Application Engineering, Data Structures and Algorithms, Web Design and UX, Agile Software Development, Database Design, Advanced Big Data Indexing

Technical Skills

Programming Languages: Java, JavaScript, TypeScript, Python, Bash

Frameworks: ReactJS, Spring Framework, Flutter, HTML, CSS, Figma, Webpack, NextJS

Databases: SQL (MySQL, Postgres, SQL Server), NoSQL (MongoDB, Redis), Oracle, ElasticSearch, BigQuery

Cloud & DevOps: Terraform, AWS, Google Cloud Platform (GCP), Docker, Packer, Jenkins, GitHub Actions, Maven, Linux

Testing & QA: JUnit, Selenium, Cypress, Playwright, Jest, Mocha, Postman

Professional Experience

Software Engineer Intern | KNOW Systems Corp | Boston, MA   Jan 2024 - Sep 2024

- Built and launched a Flutter-based mobile app for Android and iOS, achieving 90% positive user feedback on UI/UX design
- Optimized REST API integrations and Elasticsearch queries to enable semantic search across 680,000 entries, achieving response times under 200ms
- Reduced load times by 50% with advanced state management (Bloc, Riverpod) and effective caching strategies

Analyst Project Services | Rio Tinto | Ulaanbaatar, Mongolia   Apr 2020 - Aug 2022

- Developed a mining glossary web app using React, Flask, and SQL Server, managing 50,000+ terms
- Automated service request workflows with Microsoft Power Automate, reducing manual effort by 30%
- Built a desk-booking system in PowerApps, enabling 150 employees to manage seat availability
- Designed and deployed 20+ SharePoint sites for IT and HR teams, improving document management and collaboration

Programming projects

MyDear App (https://my-dear-app.vercel.app/)

- Developed and deployed full-stack web app with front-end in React with Vite, ensuring fast build times and optimized user performance
- Integrated an ExpressJS back-end with RESTful APIs and implemented AWS S3 for secure and efficient media storage and retrieval

New user tracking system

- Built a Spring Boot web app with Java APIs and integrated Cloud PostgreSQL, and implemented JUnit testing along with integration testing, reducing deployment time by 25% through GitHub Actions
- Automated infrastructure provisioning (VPC, DNS, Load Balancer, Serverless, CentOS VMs) with Terraform and Packer, achieving a 30% efficiency improvement
- Deployed on GCP with Compute Engine instances and load balancing, ensuring high availability and fault tolerance for large-scale traffic