

Khatantuul Batbold

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Education

Master of Science in Information Systems

Northeastern University | Boston, MA

Aug 2022 - Dec 2024

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

Skills

Programming: Java, JavaScript, Python, Unix Shell/Bash, JSON, YAML, TypeScript

Front-End Technologies: React, Spring Framework, Flutter, Spring Framework, Node.js, Express.js, Figma, Git, HTML, CSS

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

Cloud Computing: Terraform, Google Cloud Platform (GCP), Microsoft Azure, AWS, VPC, IAM, EC2, Packer

CI / CD Tools: Docker, Jenkins, GitHub, Maven, Apache Tomcat, GitHub Actions

Experience

Software Engineer Intern | KNOW Systems Corp | Boston, MA

Jan 2024 - Sep 2024

- Developed the entire front-end of a mobile app utilizing Flutter to ensure a seamless cross-platform experience for Android and iOS users, prioritizing testable code
- Collaborated closely with backend developers in Agile team environment and the Product Owner to implement features, resulting in a 25% faster feature delivery
- Improved app design that led to 90% of users leaving positive feedback on the UI/UX design
- Integrated RESTful services, Firebase, and other third-party services following software engineering practices, resulting in an average API response time of 200 ms
- Reduced initial load times by 50% through effective state management solutions (Bloc, Riverpod)
- Implemented advanced search functionality with FastAPI, integrating keyword and semantic search using Elasticsearch for over 680,000 standalone sentences
- Maintained app beta testing through the automation of the build process using Codemagic, saving 2 hours daily by using CI/CD pipelines and automated testing features

Analyst Project Services | Rio Tinto | Ulaanbaatar, Mongolia

Apr 2020 - Aug 2022

- Built a mining glossary web application using React, Flask, and SQL Server with 50,000 terms
- Designed and implemented over 20 tailored SharePoint sites for the IT and HR teams, enabling seamless information sharing and efficient document management
- Reduced clients' hours on manual requests by 30% by automating service request submissions on ServiceNow using Microsoft Power Automate
- Created a desk booking application using Microsoft PowerApps for a 45-seat office accommodating 150 employees with features like seat availability tracking

Programming projects

New user tracking system in Spring Boot

- Developed a web app with Java APIs integrated with Cloud PostgreSQL and continuously tested and delivered using GitHub Actions to decrease deployment time by 25%
- Accelerated provisioning time for cloud infrastructure - VPC, DNS, Serverless, Load Balancer, and CentOS Virtual Machine by 30% leveraging Terraform, Packer, and GitHub Actions
- Deployed on Google Cloud Platform (GCP) using Compute Engine instances behind a load balancer to ensure high availability and fault tolerance for large-scale traffic