Erdenezul **Batmunkh**

Software Engineer · GIAC Penetration tester

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Summary

Software Engineer with 14+ years of experience in full stack development and a strong focus on quality assurance and automation. Skilled in Node.js, React.js, PostgreSQL, Typescript, and React Native, I have a proven track record of building secure, high-performance software solutions from development to deployment, including CI/CD pipelines. My expertise in test automation frameworks (Cypress, Hypothesis, Selenium) and backend/frontend integration testing ensures scalable, reliable systems. Leveraging my background in cybersecurity, I excel at creating resilient and efficient applications, driving continuous improvement, and delivering end-to-end solutions. Passionate about enhancing system performance and collaborating across teams to achieve company-wide goals.

Work Experience

3T Software Labs
Berlin Germany

Senior Software Engineer (Full-time)
Jan. 2024 - present

- Developed and automated end-to-end test suites using Cypress, enhancing testing efficiency and reliability
- Worked on a web version of MongoDB GUI in React, Java, JCEF
- **Skills: Java, React, Cypress, JCEF, JUnit, Jest**

Sable Money Gmbh
Berlin Germany

Senior Software Engineer (Full-time)
Jan. 2023 - Dec.2023

- Automated E2E tests for a React Native mobile application using Detox and Simulator utilities, significantly reducing the need for manual testing after release
- Designed and implemented a credit reporting system and automated the debt write-off process for various scenarios, improving financial operations efficiency.
- **Skills: NodeJS, Google Cloud, Typescript, GraphQL, React, React Native, Automated UI testing, Cypress, TDD**

Building Minds Gmbh
Berlin Germany

Senior Software Engineer (Full-time)
Oct. 2021 - Dec. 2022

- Developed a system to transform IOT sensor data compliance with IBPDI schema for Digital Twin model
- Optimized event processing system by restructuring queries, reducing processing time by 45 percent, and enabling near real-time monitoring, resulting in improved system efficiency and enhanced user insights
- **Skills: NodeJS, NestJS, MongoDB, Azure Function, EventHub, Cypress, AngularJS, Kafka**

Stoovo
California, USA

Senior Software Engineer (Remote | Contractor)
Aug. 2020 - Aug. 2021

- Led software development team to build **Fin-tech** mobile application for gig workers to give credit cards and integrate gig income to his/her credit card using **React Native**
- Implemented a CI/CD pipeline to automate the release of mobile applications to the App Store and Play Store, eliminating the need for manual release processes.
- Designed a **data pipeline** architecture leveraging FiveTran, Looker, PostgreSQL, and MongoDB to streamline data processing for a **Business Intelligence** and enable comprehensive metric analysis.
- **Skills: NodeJS, React, ReactNative, Cypress, Detox, CI/CD, Project Management, Looker, MongoDB, AWS, Lambda**

Erxes Inc, Tomyo EdTech
Ulaanbaatar, Mongolia

Senior Software Engineer(Contract jobs)
Nov. 2018 - Aug. 2020

- Developed an email validation system leveraging MX resolver, reducing the bounce-back rate by 50 percent
- Optimized query performance for the Customer Engagement report, reducing report generation time by 70 percent
- **Skills: NodeJS, MongoDB, TypeScript, React, React Native, PostgreSQL**

Teso Group
Ulaanbaatar, Mongolia

Project Leader (Contractor)
Jan. 2018 - Oct. 2018

- **Led** a customer loyalty project, managing a team of 5 software engineers, resulting in a successful **investment** and the acquisition of a **2-million active users**
- **Skills: Python, Django,MongoDB, Selenium, TDD, Hypothesis(Property Testing), React Native**

Kudelski Security Group
Laussane, Switzerland

Senior Software Engineer (Remote, Full-time)
Jan. 2010 - Dec. 2017

- Designed and implemented a CI/CD pipeline using GitLab, Ansible, and OpenStack (on-premise servers) to automate the deployment of a **cross data-center** MongoDB sharded cluster, streamlining operations and eliminating manual deployment processes.
- Conducted security research on Bluetooth Low Energy and wireless devices, presented findings at the Digital Swiss event.
- Implemented scheduling platform for automated network monitoring platform using Celery, RabbitMQ
- **Skills: Penetration Testing, Network Security, Python, MongoDB, Hypothesis(Property Testing), Selenium, Ansible, CI/CD,**

Education

Mongolian University of Science and Technology   *Ulaanbaatar, Mongolia*

Bachelor of Computer Science in Information Systems   *Sep. 2006 - June. 2011*

- Won "Innovative Software" award by diploma thesis in Programming Olympiad

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