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Yesun-Erdene Jargalsaikhan

Mobile Application developer

yesunerdene.github.io
github.com/yesunerdene9
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PORTFOLIO – a visual complement to my CV here

Proactive Software Engineer and MSc Computer Science Candidate with 5+ years of proficient experience in full-lifecycle mobile application development and publishing to stores. My expertise spans software engineering, machine learning, and deep learning. During my master's studies, I gained hands-on experience training, evaluating, and optimizing language and vision models, building a strong foundation in ML workflows. I have a proven track record, having developed and published dozens of widely used mobile applications both nationally and internationally. I am seeking roles where I can leverage my software development skills and learn more in integrating machine learning models with applications.

SKILLS

Software engineering	React NativeJS, ReactJS, Javascript, Typescript, Python, Java, Java Spring Boot, PHP, PHP Symfony, NodeJS, AngularJS, C++, Firebase, MySQL, PostgreSQL
Mobile App Development	Redux, Redux-Saga, React-Navigation, Context, Zustand, Axios, Third Party Libraries, Animation, State Management, Push Notifications, Socket, Data visualization
Tools	Git, AWS, AppStoreConnect, TestFlight, Google Play Console, HotUpdate, Docker,
Machine Learning	PyTorch, Machine Learning, Deep Learning, Applied NLP, Computer Vision, Data engineering and visualization, Knowledge Graphs,
Language	English C1, Italian A2

EDUCATION

MSc in Computer Science candidate , <i>University of Trento, Italy</i>	09/2021 - present
BEng in Software Engineering , <i>National University of Mongolia</i> GPA (3.5/4.0)	09/2016 - 06/2020

EXPERIENCE

- Designed and implemented intricate and efficient app architectures using React Native, optimizing performance and maintainability.
- Integrated third-party libraries and APIs to enhance functionality while ensuring seamless user experiences.
- Demonstrated expertise in developing cross-platform mobile applications that maintain consistent performance and design across iOS and Android devices.
- Spearheaded performance optimization initiatives, significantly improving app responsiveness and reducing load times.

Research Fellow **02/2024 — 09/2025**
Datascientia research group UniTN *Italy*

- Development, deployment and maintenance of **UKC** (Opensource Multi linguistic and lexical database) and sub LKC websites
- Maintenance of metadata catalogues of language and ontology datasets
- Mobile application development for the newer version of the app
 - iLogg** - Data collection mobile app for smart citizen research project

Senior Software Engineer **01/2021 — 08/2023**
Octagon LLC (Full time) *Mongolia*

- Mobile application development and publishing, and maintenance
 - YESH.MN** - Test-based learning for high school students preparing for the university general entrance examination.
 - Octagon Wallet** - Mobile application for Octagon Ecosystem - a crypto exchange market, NFT marketplace, and digital wallet.
 - Walk and Earn** - Mobile application for the statistics on the walking of the national citizens.

Software Engineer **09/2019 — 01/2021**
And Global / Digital Mall LLC (Full time) *Mongolia*

- Mobile and web application development and publishing, and maintenance
 - Banana Mall app, **bananamall.mn** - E-commerce platform for selling and delivering products online
- Core back-end of the e-commerce platform
- Development admin management panel of the e-commerce back-office2
- Database support engineering

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Senior Software Developer

Alpha Labs LLC (Remote)

07/2020 — 09/2025

Mongolia

- Mobile application development and publishing, and maintenance
 - [100 ail market](#) - E-commerce mobile platform designed to digitize and consolidate Mongolia's building materials trade
 - [BSB.mn](#) - E-commerce mobile application for online shopping and delivery service of BSB group
 - [Taiki](#) - Mobile application dedicated to citizens of Kazakhstan for purchasing products from China.
 - [SUVD Online](#) - E-commerce mobile application that imports and resells product from South Korea
 - [G-Power Monitoring](#) - For the clients of a power supply company for monitoring and surveillance of power consumption
 - [ISU Mongolia](#) - Mobile portal application for ISU staff and parents to manage school-related activities.

MACHINE LEARNING PROJECTS

Analysing archer's body posture with Motion Capture System to detect incorrect posture

- Analysed the body posture of an archer using MoCap to capture key postural parameters detecting incorrect posture

Test Time Prompt Tuning with MEMO

- Re-implemented MEMO (Marginal Entropy Minimization with One test point) to improve the performance of the pre-trained model on image classification task at a test time.

Interpreting Sign Language Letters

- With my team built a system that recognizes six Sign Language alphabet gestures (sensors, electrics and programming)

ACTIVITIES

Dev-Summit 2023 (from Developers to Developers), <i>Speaker</i> Topic: Mobile App Development , Mongolia	05/2023
And Hackathon 2020, <i>1st Place</i> : VS Code Extension for Agile Development Support, Mongolia	10/2020
Open Platform Hackathon 2019 - LendMN, <i>2nd Place</i> : Steam Marketplace, Mongolia	05/2019
Open Data Hackathon 2019 - National University of Mongolia: Steam Marketplace, Mongolia	05/2019

National Archery Championship 2023: Compound Archery, <i>Women's Individual Silver medalist</i> , Mongolia	08/2023
FISU 2021 World University Games: Compound Archery, <i>Individual & Women team</i> , Chengdu, China	07/2023