

### 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

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

### EDUCATION

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

### EXPERIENCE

<b>Research Fellow</b> <i>Datascientia research group UniTN</i>	<b>02/2024 — 09/2025</b> <i>Italy</i>
<ul style="list-style-type: none"><li>• Development, deployment and maintenance of <b>UKC</b> (Opensource Multi linguistic and lexical database) and sub LKC websites</li><li>• Maintenance of metadata catalogues of language and ontology datasets</li><li>• Mobile application development for the newer version of the app<ul style="list-style-type: none"><li>– <b>iLogg</b> - Data collection mobile app for smart citizen research project</li></ul></li></ul>	
<b>Senior Software Engineer</b> <i>Octagon LLC (Full time)</i>	<b>01/2021 — 08/2023</b> <i>Mongolia</i>
<ul style="list-style-type: none"><li>• Mobile application development and publishing, and maintenance<ul style="list-style-type: none"><li>– <b>YESH.MN</b> - Test-based learning for high school students preparing for the university general entrance examination.</li><li>– <b>Octagon Wallet</b> - Mobile application for Octagon Ecosystem - a crypto exchange market, NFT marketplace, and digital wallet.</li><li>– <b>Walk and Earn</b> - Mobile application for the statistics on the walking of the national citizens.</li></ul></li></ul>	
<b>Software Engineer</b> <i>And Global / Digital Mall LLC (Full time)</i>	<b>09/2019 — 01/2021</b> <i>Mongolia</i>
<ul style="list-style-type: none"><li>• Mobile and web application development and publishing, and maintenance<ul style="list-style-type: none"><li>– Banana Mall app, <b>bananamall.mn</b> - E-commerce platform for selling and delivering products online</li></ul></li><li>• Core back-end of the e-commerce platform</li><li>• Development admin management panel of the e-commerce back-office2</li><li>• Database support engineering</li></ul>	
<b>Senior Software Developer</b> <i>Alpha Labs LLC (Remote)</i>	<b>07/2020 — 09/2025</b> <i>Mongolia</i>
<ul style="list-style-type: none"><li>• Mobile application development and publishing, and maintenance<ul style="list-style-type: none"><li>– <b>100 ail market</b> - E-commerce mobile platform designed to digitize and consolidate Mongolia's building materials trade</li><li>– <b>BSB.mn</b> - E-commerce mobile application for online shopping and delivery service of BSB group</li><li>– <b>Taiki</b> - Mobile application dedicated to citizens of Kazakhstan for purchasing products from China.</li><li>– <b>SUVD Online</b> - E-commerce mobile application that imports and resells product from South Korea</li><li>– <b>G-Power Monitoring</b> - For the clients of a power supply company for monitoring and surveillance of power consumption</li><li>– <b>ISU Mongolia</b> - Mobile portal application for ISU staff and parents to manage school-related activities.</li></ul></li></ul>	

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# Yesun-Erdene Jargalsaikhan

Mobile Application developer

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## 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, electronics and programming)

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## ACTIVITIES

Dev-Summit 2023 (from Developers to Developers), <b>Speaker</b> Topic: Mobile App Development , Mongolia	05/2023
And Hackathon 2020, <b>1st Place</b> : VS Code Extension for Agile Development Support, Mongolia	10/2020
Open Platform Hackathon 2019 - LendMN, <b>2nd Place</b> : Steam Marketplace, Mongolia	05/2019
Open Data Hackathon 2019 - National University of Mongolia: Steam Marketplace, Mongolia	05/2019
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National Archery Championship 2023: Compound Archery, <i>Women's Individual</i> <b>Silver medalist</b> , Mongolia	08/2023
FISU 2021 World University Games: Compound Archery, <i>Individual &amp; Women team</i> , Chengdu, China	07/2023