

# SODGEREL MANDAKHNARAN

Software Engineer

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leregdos

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## SUMMARY

A data-driven Software Engineer, experienced in AGILE development and armed with a solid academic foundation from New York University Abu Dhabi. Background spans across Software Development, Cybersecurity, and Networks.

## SKILLS

**Languages:** Dart, Python, C++, C, JavaScript/TypeScript, Java, Ruby, PHP, HTML, CSS, Arduino, Assembly, SQL, Bash, Latex.

**Technologies:** Flutter, Rails, Laravel, MongoDB, Node.js + Express, React.js, MySQL, PostgreSQL, Git, Linux, Wireshark, Firebase, AppWrite, Microsoft Azure ML, Hugo, Flask.

**Other:** Solidworks, Unity 3D, Adobe Illustrator, Adobe Photoshop, Canva, Final Cut Pro, Logic Pro.

## EXPERIENCE

4/2021 – Present	<b>Software Engineer</b> <ul style="list-style-type: none"><li>Spearheaded development of a mobile application from scratch with 800+ monthly users.</li><li>Resolved 100+ user stories &amp; tickets across 18 sprints, contributing to enhanced software quality.</li><li>Implemented 3 REST APIs and coded 5 cloud functions in the backend environment adding features such as payment.</li><li>Authored 6 critical database scripts, streamlining operations and elevating productivity by over 30%.</li></ul> <b>Flutter / AppWrite / Node.js / Express / Firebase</b>	<b>ORDA Wealth</b>
6/2022 – 7/2022	<b>Research Assistant</b> <ul style="list-style-type: none"><li>Verified possibility of using ultrasonic beacons to make internet accessible to third world countries.</li><li>Developed and tested a cutting-edge mobile application that captured and analyzed sound waves, enabling real-time monitoring of ultrasonic waves.</li><li>Deployed a scalable Python codebase with Flask, enabling efficient analysis of recorded audio; achieved a 40% reduction in processing time by leveraging multi-threading techniques.</li></ul> <b>Flutter / Python / Flask</b>	<b>ComNets Lab</b>
1/2021 – 4/2021	<b>Software Engineer Intern</b> <ul style="list-style-type: none"><li>Consolidated company data and built 2 static websites for the company by learning the tool from scratch.</li><li>Initiated the development of an alternative investment mobile application by leading a team of 2 interns.</li></ul> <b>Hugo / Linux / Flutter</b>	<b>ORDA Wealth</b>

## PROJECTS

9/2023 – 12/2023	<b>GPTuner</b> <ul style="list-style-type: none"><li>Orchestrated the development, construction, and testing of a highly efficient end-to-end pipeline that crowdsourced data for language model fine-tuning.</li><li>Added 4 important features including authentication, prompt submission &amp; demonstration.</li><li>Developed a comprehensive user engagement and data validation strategy for a reward system, resulting in a 40% increase in valid user submissions and a 25% boost in overall user engagement metrics.</li></ul> <b>Flutter / MongoDB / Mongoose / Node.js / Express</b>	<b>Team of 1</b>
9/2023 – 12/2023	<b>CareVoice</b> <ul style="list-style-type: none"><li>Executed a full-stack web development project using Agile methodologies, including Extreme Programming and SCRUM, resulting in improved project management efficiency, timely milestone completion, and a 60% reduction in development cycle time.</li><li>Engineered a robust REST API and highly scalable NoSQL database, empowering seamless user authentication, efficient survey management, and streamlined feedback processing. Decreased response time by 35%.</li><li>Integrated quality attributes such as security, reliability, and scalability through data encryption, redundancy, and optimizing server architecture; achieved 99% uptime and increased system performance by 25%.</li></ul> <b>MongoDB / Mongoose / Node.js / Express</b>	<b>Team of 4</b>
10/2021 – 10/2021	<b>Virtual File System</b> <ul style="list-style-type: none"><li>Designed a Linux file system simulation in C++ by utilizing OOP and Algorithm design principles.</li><li>Coded 5 different data structure classes from scratch such as linked list, stack, and trees.</li><li>Analyzed the performance of different sorting algorithms and integrated the most efficient one.</li></ul> <b>C++ / Linux</b>	<b>Team of 1</b>

## EDUCATION

9/2019 – 5/2024 100% scholarship with honors	<b>New York University</b> <b>BSc. in Computer Science with Minor in Interactive Media</b>  <b>Relevant Coursework:</b> Data Structures, Algorithms, Computer Systems Organization, Operating Systems, Computer Networks, Computer Security, Software Engineering, Database Systems, DevOps. <b>Activities:</b> Computer Science Peer Tutor, Captain of Brazilian Jiu-Jitsu team, Resident Assistant	<b>GPA: 3.93</b>
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## LANGUAGES

English - proficient, Japanese - intermediate, Mongolian - native