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: Python, Dart, C++, C, JavaScript/TypeScript,

Java, HTML, CSS, Arduino, Assembly, SQL,

Bash, Latex.

Technologies: Flutter, MongoDB, Mongoose, Node.js, Ex-

press, React.js, MySQL, PostgreSQL, Git, JUnit, JaCoCo, Linux, Wireshark, Firebase, App-Write, Microsoft Azure ML, Hugo, Flask.

Other: Solidworks, Unity 3D, Adobe Illustrator, Adobe

Photoshop, Canva, Final Cut Pro, Logic Pro.

EDUCATION

9/2019 - 5/2024 100% scholarship **New York University Abu Dhabi**

BSc. in Computer Science with Minor in Interactive Media

GPA: 3.93

Relevant Coursework: Data Structures, Algorithms, Computer Systems Organization, Operating Systems, Computer Networks, Computer Security, Software Engineering.

Activities: Computer Science Peer Tutor, Captain of Brazilian Jiu-Jitsu team, Resident Assistant

EXPERIENCE

4/2021 - 9/2023 **Software Engineer I**

ORDA Wealth

- · Spearheaded development of a mobile application from scratch with 800+ monthly users.
- Resolved 100+ user stories & tickets across 18 sprints, contributing to enhanced software quality.
- · Implemented 3 REST APIs and coded 5 cloud functions in the backend environment adding features such as payment.
- · Authored 6 critical database scripts, streamlining operations and elevating productivity by over 30%.

Flutter / AppWrite / Node.js / Express / Firebase

6/2022 - 7/2022 Research Assistant

ComNets Lab

- · Verified possibility of using ultrasonic beacons to make internet accessible to third world countries.
- Developed and tested a cutting-edge mobile application that captured and analyzed sound waves, enabling real-time monitoring of ultrasonic waves.
- 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.

Flutter / Python / Flask

1/2021 - 4/2021

Software Engineer Intern

ORDA Wealth

- · Consolidated company data and built 2 static websites for the company by learning the tool from scratch.
- Initiated the development of an alternative investment mobile application by leading a team of 2 interns.

Hugo / Linux / Flutter

PROJECTS -

9/2023 - 12/2023

GPTuner Te

- Orchestrated the development, construction, and testing of a highly efficient end-to-end pipeline that crowdsourced data for language model fine-tuning.
- · Added 4 important features including authentication, prompt submission & demonstration.
- 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.

Flutter / MongoDB / Mongoose / Node.js / Express

9/2023 - 12/2023

CareVoice

Team of 4

- 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.
- 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%.
- 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%.

MongoDB / Mongoose / Node.js / Express / React.js

10/2021 - 10/2021

Virtual File System

Team of 1

- · Designed a Linux file system simulation in C++ by utilizing OOP and Algorithm design principles.
- · Coded 5 different data structure classes from scratch such as linked list, stack, and trees.
- Analyzed the performance of different sorting algorithms and integrated the most efficient one.
 C++ / Linux

LANGUAGES