ALEXANDER OROUDJEV | MS

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EDUCATION

Masters of Science, Bioinformatics - March 2024
Brandeis University, Waltham MA

Bachelor of Science, Biochemistry - June 2022
University of California Santa Barbara, Santa Barbara CA *Chemistry Department*

Associates, Biology and Computer Science - May 2019
Santa Barbara City College, Santa Barbara CA

PROFESSIONAL SUMMARY

Dynamic professional transitioning from the biotech industry with a Master's in Bioinformatics, I specialize in Python with a strong foundation in programming, data analytics, and machine learning from academic and personal projects. I am known for my attention to detail, rapid learning capabilities, and clear communication. I'm poised to grow in computational biology, software development, or data science, leveraging my skills in a professional setting.

KEY PROJECTS

PalmPaths (Continuous Development): *Flutter, Dart, Kotlin*
Developing a mobile application leveraging computer vision technologies to perform real-time object detection. Extracts and analyzes palm lines from live camera feeds, utilizing machine learning models to provide innovative digital palm reading services.

ReactSweeper (Web Application): *React, TypeScript, CSS*
A modern rendition of the classic Minesweeper game, built as a web application. Focused on delivering a user-friendly interface and enhanced performance, contributing to a deeper understanding of frontend development principles and state management in complex web applications.

AREAS OF EXPERTISE

- **Languages:** Python, R, Rust, C++, Kotlin, and more
- Large-scale genomic data analysis/processing
- **Frameworks and tools**: React, Tensorflow, Git
- Machine learning model development
- Data visualization with insightful information
- Statistical modeling and quantitative analysis

PROFESSIONAL EXPERIENCE

QC Technician | September 2022 - Present

Wyatt Technology | **Waters**, Goleta, CA

- Played a critical role in R&D projects focusing on the enhancement of product quality and efficiency, leading to significant improvements in usability and precision of data measurement.
- Independently managed and optimized Python scripts and pipelines critical for automating quality control processes, integrating software with hardware (DAQ boards) to streamline operations and reduce manual intervention.