

# Nabeel Sabzwari

(408) 218-8885  
nabeelsabz101@gmail.com  
<https://nabeelsabzwari.com>

## PROFESSIONAL OBJECTIVE

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Computer Science master's student at UC Davis, with an engineering degree from UC Berkeley, excellent academic credentials, and 2+ years of experience in software development. Seeking a software engineering internship to contribute to company objectives while nurturing my passion for improving people's well-being.

## EXPERIENCE

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- System Engineering Co-Op**, iRhythm Technologies - San Francisco, CA 01/2023 - 08/2023
- Played a pivotal role in designing and validating iRhythm's heart monitoring device.
  - Proactively identified, reported, and helped resolve firmware bugs in Jira during testing, contributing to product quality improvements.
  - Automated two tests using Python during the test cycle, resulting in a remarkable 80% and 99% time reduction, respectively.
  - Leveraged knowledge in Python, data structures, algorithms, code optimization, and code modularization to automate daily tasks for personal and team-wide use.
- Data Scientist Intern**, Xtrava Health - Santa Clara, CA 06/2022 - 08/2022
- Created a script using Python to extract patient data from over 500 scanned tests from digital COVID-19 sensors.
  - Implemented scripts in Python to pinpoint areas of improvement in Xtrava's COVID-19 detection algorithm.

## LANGUAGES AND TECHNOLOGIES

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Flask, Git, Java, JavaScript, Jira, Linux, MATLAB, Pandas, Python, PyTorch, React, ROS, SQL, Splunk

## EDUCATION

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- Computer Science, M.S.**, University of California, Davis 09/2023 - 06/2025
- Emphasis on machine learning in biotechnology
- Bioengineering, B.S.**, University of California, Berkeley 08/2020 - 12/2022
- GPA: 3.8
  - Clubs: Bioengineering Honor Society, The Biomedical Engi
  - Coursework: *Bioinstrumentation, Computational Biology, Circuit Analysis, Data Structures and Algorithms, Principles and Techniques of Data Science, Introduction to Robotics*

## PROJECTS

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- Results Generator Tool**, Personal - San Jose, CA 08/2023 - 09/2023
- Designed, tested, and completed a comprehensive full-stack project for my mother's educational institution, comprising a Flask-based web application engineered to take a user-provided Excel spreadsheet containing raw student information from a completed course and process it to output a finalized course report sheet.
  - Drastically improved the operational time to submit class grades from over two weeks to less than a minute.
- Monte Carlo Simulation**, iRhythm Technologies - San Francisco, CA 04/2022 - 08/2023
- Optimized an existing battery model for iRhythm Technologies' heart monitoring device through the creation of a Python-based Monte Carlo simulation, generating a distribution of projected battery life durations per device that more accurately represented field conditions.
- Autonomous Drone Delivery System**, UC Berkeley - Berkeley, CA 11/2022 - 12/2022
- Designed a system to pick up a payload and drop it off at a desired location using ROS and Python (<https://sites.google.com/berkeley.edu/autonomous-drone/intro>).

## REFERENCES

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See <https://www.linkedin.com/in/nabeel-sabzwari-899697167/> for references.