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

Nabeel Sabzwari

PROFESSIONAL OBJECTIVE

Incoming Computer Science master's student at UC Davis, with a B.S. in Bioengineering 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 own passion for problem-solving and innovation.

EXPERIENCE

System Engineering Co-Op, iRhythm Technologies - San Francisco, CA 01/2023 - 08/2023
- Played a pivotal role in the design verification and validation of iRhythm's next-gen Zio AT device.
- Proactively identified and reported firmware bugs in Jira during testing, contributing to product quality improvements.
- Automated two tests during the test cycle, resulting in a remarkable 83% and 99% time reduction, respectively.
- Leveraged expertise in data structures and algorithms in Python to automate daily tasks for both personal and team-wide use.

Data Scientist Intern, Xtrava Health - Santa Clara, CA 06/2022 - 08/2022
- Created a parsing script using Python to extract valuable insights for 500 scanned tests evaluating the performance of Xtrava Health's COVID-19 digital sensors.
- Implemented scripts in Python to pinpoint areas of improvement in Xtrava's COVID-19 detection algorithm.

Undergraduate Research Apprentice, UC Berkeley - Berkeley, CA 09/2020 - 11/2022
- Wrote a Python program for interactivity between a Raspberry Pi and Arduino for a dialysis device in the lab of Dr. Waqas Khalid through Berkeley's URAP program.
- Designed front-end Python code hosted on a Raspberry Pi using Qt Creator to be utilized by doctors for a graphical user interface.

LANGUAGES AND TECHNOLOGIES

Arduino, Flask, Git, Java, JavaScript, Jira, MATLAB, OpenCV, PyTorch, Python, React.js, ROS, SQL, Splunk

EDUCATION

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
- Member of the Professional Development Committee in the Bioengineering Honor Society.
- Coursework: *Bioinstrumentation, Computational Biology, Circuit Analysis, Data Structures and Algorithms, Principles and Techniques of Data Science*, *Introduction to Robotics*

PROJECTS

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.

Monte Carlo Simulation, iRhythm Technologies - San Francisco, CA 04/2022 - 08/2023
- Strengthened an established battery model for iRhythm Technologies' Zio AT product through the creation of a Python-based Monte-Carlo simulation, generating a distribution of projected battery life durations for subsequent statistical analysis, facilitating a comprehensive evaluation of device longevity in 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 (website).