

# Iram Morshed

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## Education

### University of California, Berkeley

Graduation: May 2023

GPA: 3.47/4.0

B.A. - Computer Science

Double Minor - Data Science,  
Political Economy

## Skills

Java, Javascript, Python, C, Golang, HTML/CSS,  
SQL, Git, Pandas, Microsoft Azure

## Coursework

Data Structures, Machine Structures, Algorithms, Discrete Math, Data Science, Cybersecurity, Artificial Intelligence, Data Mining, Machine Learning and Analytics, Probability, Database Systems

## Experience

### SOFTWARE ENGINEER INTERN | GAP INC.

MAY - AUG 2022

- Orchestrated migration and validation of millions of data records spanning various platforms for multiple business units, leveraging **Microsoft Azure**, **Postman**, **Swagger UI**, **SQL queries**, and **Gradle** build tools
- Implemented marketing flags in **Java** and seamlessly integrated them into existing codebase, optimizing data processing and categorization across several brands

### WEB DEVELOPMENT TEACHING ASSISTANT | GIRLS WHO CODE

JUN - AUG 2021

- Instructed 100 high school students in **HTML**, **CSS**, **JS** across a dynamic teaching team spanning three groups
- Diagnosed and resolved individual project issues, offering mentorship for student growth
- Increased engagement by actively integrating student feedback, incorporating additional demos, visual aids, and interactive activities
- Coordinated event logistics with corporate partners (Wells Fargo, Ernst and Young, JPMorgan Chase) and facilitated productive discussions between students and employees

### SWE++ INSTRUCTOR | SOCIETY OF WOMEN ENGINEERS

FEB 2021 - JAN 2022

- Collaborated within a 10-member team to co-lead a 10-week introductory **Python** course for 40 middle-school girls
- Developed weekly coding demos, interactive lesson plans, and engaging activities to boost learning and participation
- Designed promotional materials and facilitated coding workshops for Tech Day, a two-day session for 100+ students across the world

# Projects

## ENCRYPTED FILE-SHARING | GOLANG

APRIL 2022

- Designed and implemented a secure client application for **file-sharing**, offering user authentication, file storage/retrieval, file overwriting/appending, and file access sharing with option to revoke access
- Ensured data security through advanced **cryptographic** techniques, including **symmetric/asymmetric encryption, digital signatures, and HMAC**, safeguarding user data from unauthorized server access and tampering

## TITANIC SURVIVAL MODEL | PYTHON, SCIKIT-LEARN

OCT 2022

- Trained a **neural network** to predict passenger survival rates on the Titanic utilizing 7 key features (gender, class, etc.)
- Achieved an **85% accuracy rate** on previously unseen data by optimizing model parameters through GridSearchCV and K-Fold Cross Validation techniques

## SIMPLE GIT | JAVA

MAY 2020

- Developed a **Java version-control system** featuring 13 commands including merge, commit, add, remove, checkout
- Designed robust architecture that employed a set of classes and **data structures** to maintain file persistence and contents