

Muhammad Khalid

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EDUCATION

Grinnell College

Bachelor of Arts in Computer Science, Concentration in Statistics

Grinnell, IA

Class of 2026

- Cumulative GPA: 3.55/4.0, In-major GPA: 3.68/4.0, Deans list Spring 2023 & Fall 2023
- Selected Coursework: Data Structures & Algorithms (Java), Computational Methods (Python) - *ongoing*, Imperative Problem Solving (C), Functional Problem Solving (Racket)

EXPERIENCE

Software Developer, Intern

10Pearls

June 2023 – Aug. 2023

Karachi, Pakistan

- Developed a fitness-tracking application using Python, Flask, PostgreSQL, and HTML/CSS
- Wrote manual tests using in-house testing software to perform quality assurance on various applications
- Utilized scrum to coordinate with mentor and track progress effectively
- Wrote machine learning models using Scikit-learn and Python to derive insights using supplied datasets

Computer Science Grader

Grinnell College

Sep. 2023 – Dec. 2023

Grinnell, IA

- Graded 60+ weekly labs, reading assignments, and projects in Racket, collaborating with faculty frequently
- Debugged code written by students, explained mistakes, and provided solutions
- Uploaded lab, reading, and project submissions for students ensuring their timely submissions

Spencer's Grill, Staff Member

Grinnell College

Sep 2022 – Present

Grinnell, IA

- Handled customer orders and provided customer service by responding to inquiries
- Prepared and served dishes and beverages promptly to customers
- Collaborated with a team to maintain a clean and organized work environment while upholding food safety and hygiene standards.

EXTRACURRICULAR EXPERIENCE

Pioneer Weekend

Grinnell College

September 2023

Grinnell, IA

- Secured 2nd place in a rigorous weekend-long competition, focused on innovation and entrepreneurship
- Worked with a cross-functional team to conceptualize and design a college-centric, user-to-user online marketplace
- Implemented generative AI technology using an API to automate the item listing process for a demo

HackGC

Grinnell College

April 2023

Grinnell, IA

- Won 2nd place at a hackathon focused on using technology to fight climate change
- Collaborated with a team to design an application prototype as an MVP
- Created the front-end and basic user functionality for the application using HTML/CSS & JavaScript
- Worked with mentors, leveraging their expertise to refine our idea

PROJECTS

FitnessTracker | *Python, Flask, HTML/CSS, PostgreSQL, Bootstrap*

Aug. 2023

- Designed and coded a dynamic fitness tracking web app w/ account creation, workout and weight logging
- Implemented secure user authentication and password hashing using Flask-Login and Werkzeug
- Integrated Plotly Express for interactive progress visualization
- Utilized SQLAlchemy to manage a PostgreSQL database, optimizing data handling

TECHNICAL SKILLS

Proficient: Python, Java, C/C++, Racket

Familiar: R, SQL (Postgres), JavaScript, React, Flask, HTML/CSS, Bootstrap, Git