

# Uneeb Hyder

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## EDUCATION

### Swarthmore College

*Liberal Arts College*

Swarthmore, PA

*Expected Graduation: 2028*

- B.A. in Computer Science and B.S. in Engineering at Swarthmore College
- Relevant Coursework: Data Structures and Algorithms, Introduction to Computer Systems, Competitive Programming, Linear Algebra, Multivariable Calculus
- Cumulative GPA: 3.80/4.00

### Capital City High School

*Public High School*

Jefferson City, MO

*Fall 2020 – Spring 2024*

- High School Diploma
- Cumulative GPA: 4.000/4.000; School Valedictorian

## SKILLS

### *Programming Languages & Software Engineering*

- Proficient in Python; Familiar with C, C++, JavaScript, Docker, SQL/PostgreSQL
- Object Oriented Programming, Django and PyTorch frameworks
- Languages: English (Native), Urdu (Native), Arabic (Intermediate), French (Basic)

## RELEVANT EXPERIENCE

### AI Test Preparation

*Founder*

Swarthmore, PA

*Jun 2025 – present*

- Developing Django website integrating with LLM APIs to generate lessons and review content based on Advanced Placement practice test results.
- Implementing multiagent AI frameworks in Python to organize and manage content generation.

### DQ Khan School

*Organizer and Instructor, Introduction to Python Bootcamp*

Islamabad, PK

*Oct 2023 – Nov 2023*

- Organized a ten-day introductory Python bootcamp for underserved middle school students in Pakistan, designed lessons, wrote presentations, and developed example programs for students.
- Taught remote lessons and created example Python programs on-screen through Zoom and completed bootcamp with an example calculator project created live using Tkinter
- [Drive folder of bootcamp materials](#)

## TECHNICAL PROJECTS

### RNN Poetry Generator

*Recurrent Neural Network/Markov Chain*

[Blog](#) | [GitHub](#) | [GitHub 2](#)

- Built and trained a Recurrent Neural Network using Char-RNN framework in Lua on Project Gutenberg poetry text corpuses, published AI model online using Python and Django, with Unicorn server.
- Trained a word-based Markov Chain text generator for additional rhyme scheme options, integrating with multiple Python libraries such as markovify and pronouncing for accurate results, published as additional website using Django.

### Chess Image Classifier

*Convolutional Neural Network*

[GitHub](#)

- Finetuned ResNet34 on images of a digital chessboard to determine which side was winning or whether game was drawn at moment, using Pytorch-based fastai framework.
- Manually collected and labeled data for finetuning purposes.

## ACTIVITIES

### Capital City High School

*Chess Club (Member 22-23, President 23-24)*

*August 2022 – May 2024*

- Secured \$5,000 to fund chess equipment and tournaments, including state/nationals; led meetings and mentored students in chess strategy and tactics.