CHLOE SHEEN Developer, Educator, Student

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EDUCATION

University of Pennsylvania   Master of Science in Engineering, Computer Science, May 2021

Bryn Mawr College   Bachelor of Arts in Computer Science, *Magna Cum Laude,* May 2019
[Thesis: Algebraic Characterization of Regular Languages, advised by Prof. Steven Lindell]
[Awards: FIPSE Grant from the Andrew W. Mellon Foundation]

EXPERIENCE   in chloesheen

University of Pennsylvania, Graduate Teaching Assistant   Aug '19 – Present
· Assisted Prof. Clayton Greenberg for his course Computational Linguistics (CIS530) in
  creating/grading assignments, hosting oral exams, and holding weekly office hours.
· Assisted Prof. Nick Hand for his course Geospatial Data Science in Python (MUSA620) in
  grading python-oriented data science projects.

Weingarten Learning Resources Center, Assistive Technology Assistant Aug '19 – Present
· Produced course materials in accessible e-text formats for students with disabilities.
· Researched more updated TTS software such as MathTalk for integration into assignments.

University of Pennsylvania, Graduate Research Assistant   May '20 – Sep '20
· Enhanced and extended a simulation dealing with national conflict modeling using a game
  theoretic model through data mining and agent-based simulation. Worked with Prof. Barry
  Silverman in the ESE department.
· Overhauled the front-end of the application to be accessible and user-friendly.

BSD Code and Design Academy, Instructor [HTML, CSS, JS]   Jun '18 – Aug '19
· Designed and taught three courses using curriculum for intermediate HTML, CSS, and JavaScript
  at Hill Top Preparatory School for high school students with learning disabilities.

Haverford College, Research Assistant [Python, C++, Scheme, Perl]   Jan '18 – Aug '18
· Contributed to the drafting and finalization of lab assignments using Festvox to be incorporated
  into Professor Jane Chandlee's Speech Synthesis and Recognition (CMSC 208) course.
· Assisted with Professor Chandlee's speech synthesis research at the Speech Research Lab at the
  Center for Pediatric Auditory and Speech Sciences at the DuPont Hospital for Children.

Lemma, Inc., Senior Software Developer [Python]   Jun '17 - Sep '17
· Developed an open-source library (https://github.com/lemmalearning/Easy-Figures) to more
  efficiently create commonly used charts and figures in math modules and practice problems.
· Implemented Agile development in a startup environment and served as the scrum master.

PROJECTS   ○ chloesheen

Authorship Classification with BERT [Python]
· Research Project exploring authorship classification, using the Reuters 50-50 dataset and
  evaluating based on F1 and MCC scores, searching for the best BERT model
· Achieved an F1 score of 92.9% and MCC of 93.1% using BERT + bag of words in a simple
  forward-feed neural net using end-to-end embedding

Rahul Kotak Foundation [Android development]
· Developed an Android application to provide real-time updates on attendance data in multiple
  schools in Kenya to cook appropriate amounts of githeri each day
· Fully integrated into the organization, significantly reducing waste; the organization has been able
  to lower the cost of feeding each student to just $3 per month.