

Diana Marsala

MarsalaD@sas.upenn.edu

Personal: marsalad.com

Github: github.com/marsalad

LinkedIn: linkedin.com/in/marsalad

EDUCATION

University of Pennsylvania

Aug 2018 - May 2020

School of Engineering & Applied Science - Philadelphia, PA

- **Master of Science in Engineering, Computer Science**
- Relevant Coursework: Artificial Intelligence (A+), Analysis of Algorithms (A), Database Systems (A)

University of Pennsylvania

Aug 2016 - May 2020

School of Engineering & Applied Science, College of Arts and Sciences - Philadelphia, PA

- **Bachelor of Applied Science, Computer Science**
 - **Bachelor of Arts, Linguistics Major with Mathematics Minor**
 - Dean's List: 2016-2017, 2017-2018
 - Relevant Coursework: Computational Linguistics (A+), Data Structures & Algorithms (A), Software Design & Engineering (A), Linear Algebra (A+), Programming Languages & Techniques (A), Computer Architecture (A)
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EXPERIENCE

Head Teaching Assistant - Software Design & Engineering (CIS 350)

Jan 2019 - Present

University of Pennsylvania - Philadelphia, PA

- Upper-level software engineering course of 200 students taught in **Java** and **Android**
- Responsible for course infrastructure and managing a staff of 14 TAs

Head Teaching Assistant - Computational Linguistics (CIS 530)

Jan 2019 - Present

University of Pennsylvania - Philadelphia, PA

- Graduate-level **NLP** course of 80 students taught in **Python**; covers sentiment analysis, text classification, n-gram language modeling, neural networks, markov models, POS tagging, text generation, and more
- Responsible for course infrastructure, weekly office hours, grading, and new homework development

Natural Language Processing Research Assistant (Dr. Callison-Burch)

Aug 2018 - Present

University of Pennsylvania - Philadelphia, PA

- Studying self-identification on Reddit using **Python** and **SQL**: factors leading to self-identification, most common claimed identities, co-occurring identities, etc.

Software Engineering Intern (Privacy Team)

May 2018 - Aug 2018

Facebook - Menlo Park, CA

- Full-stack and back-end work in **Hack**, **XHP**, and **Java** for Access Your Information and Activity Log products

Teaching Assistant - Programming Languages & Techniques (CIS 120)

Jan 2017 - May 2018

University of Pennsylvania - Philadelphia, PA

- Second semester programming course of 300 students taught in **OCaml** and **Java**
 - Responsible for weekly recitation, office hours, grading, and new homework development
 - Increased staff grading ease and efficiency by creating auto-tabulating spreadsheets with built-in emailing features; improvements made by suggestion include email preview and markdown comments
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PROJECTS

My MindSweeper - MangoHacks 2018 - <https://devpost.com/software/landmind>

Feb 2018

- **Won 2nd Overall and 1517 Grant** (out of ~650 hackers)
- Mobile app to monitor mental health and identify triggers by parsing data from SMS/FB messages with Beautiful Soup; Analyzes each message's sentiment, emotion, and keywords with **NLP** in **Python**

Cafecito - HackGT New Heights - <https://devpost.com/software/cafecito>

Oct 2017

- **Won Overall Top Prize** (out of ~1000 hackers)
 - Transpiler written in **Java** converts/compiles non-English Java using ANTLR, allowing anyone to code in Java, in any language; Included plug-in for syntax highlighting and code completion
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COMMUNITY INVOLVEMENT

Outreach Chair (PennApps Hackathon); **Fellowship, Pledging Committees** (Alpha Phi Omega Service Fraternity); **Mentor** (Women in Computer Science); **Social Chair** (Project LETS); **Vice President of Facilitation** (Penn Reflect)

Italian Dual-Citizen · Animal Lover · Storyteller · Mental Health Advocate · FIRST Robotics Alumnus