ANA MACHAIDZE

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Education

University of Pennsylvania, School of Engineering and Applied Science - Philadelphia, PA

May 2022

Bachelor of Science in Engineering, Computer and Information Science

Technical Skills and Coursework

Languages and Technologies: Java, C, C++, Python, OCaml, Kotlin, JavaScript, HTML, CSS, Git, GitHub
Upcoming Semester: Operating Systems(C); Advanced Programming (Haskell), Statistics for Data Science (Python)
Past Semesters: Data Structures and Algorithms (Java); Internet and Web Systems (Java); Software Design (Java, JavaScript);
Introduction to Computer Systems (C); Market and Social Systems on the Internet (Java); Programming Languages and
Techniques (Java, OCaml); Discrete Mathematics; Automata, Computability, and Complexity

Professional Experience

STEP Intern | Google, Inc.

May - Aug 2020

- · Created a personal portfolio website using the Google App Engine, Java Servlets, Java Script, HTML, CSS
- · Implemented an event scheduling algorithm that considers attendees' calendars and finds best available times
- · Collaborated with 2 other interns to create ResumeBuddy, a web application that connects students to career professionals and provides an effective interface to review resumes
- Designed and implemented the resume commenting feature, a reviewer-reviewee pairing algorithm, object models for keeping application data in the Google Cloud Datastore, and email notifications using Gmail API
- · Added integration and unit tests with JUnit and Mockito
- · Attended tech and leadership workshops at the Google Women Intern Community (gWIC) summit

CIT 594 Teaching Assistant | University of Pennsylvania - Philadelphia, PA

Jan - May 2020

- · Supported teaching a Data Structures and Software Design course with 5 other TAs
- · Led weekly recitations and office hours, and graded homework written in Java for 75 students

Residential TA | Engineering Summer Academy at Penn - Philadelphia, PA

July 2019

- · Assisted teaching 34 high school students a college-level course in Complex Networks
- · Presented crash course lectures for Python, graded homework and held office hours
- Collaborated with 4 other RTAs to organize study sessions and social activities for students

Computer Science Instructor | Penn Alexander School – Philadelphia, PA

Feb - May 2019

- $\cdot~$ Taught 24 first and second grade students coding in Scratch
- · Created and implemented game design lesson plans together with one other Penn student

Projects

Suchmaschine (Java, Apache Spark, EMR) | CIS 455 Internet and Web Systems

May 2020

- · Created a distributed scalable search engine in a 4-person group
- · Implemented a Mercator-style web crawler using Apache Spark which crawled 3 pages per second

Stormlite (*Java*) | CIS 455 Internet and Web Systems

Apr 2020

- · Recreated a simplified version of Apache Storm which runs distributively
- · Implemented Bolt and Spout Jobs and communication functionality between Master and worker nodes

PennPals (Java, JavaScript, MongoDB) | CIS 350 Software Design

Nov 2019

- · Collaborated with 3 Students to create PennPals an Android and web application that connects Penn students to future applicants from underrepresented backgrounds to provide mentorship and guidance
- · Designed the registration, profile creation, and authorization features for users on the mobile app
- · Implemented admin monitoring, user blocking and deactivating functionality on the web app