Gabriela Pletosu

Junior at the University of Washington, Seattle, majoring in Computer Science and Linguistics

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PROJECTS

AI Spam Email Detection Filter *in Python*
- Developing a naive Bayes algorithm to detect the statistical likelihood of spam or ham emails.
- Using a training model to predict spam emails on a larger sample with approximately 93% accuracy.

Interactive Auction Application *in TypeScript and HTML, using React*
- Creating a user-friendly website application with dynamic functionality available for up to 5 concurrent users.
- Taking advantage of the fast rendering capabilities of React to allow real-time updates on the auction simulation with each new piece of user input.
- Testing each method's correctness with Node and node-mocks-http using heuristic models for efficiency.

Calendar and Agenda Program *in Java*
- Making a yearly calendar represented by several Java classes to allow clients to create, remove, and keep track of events on specific days at specific times.
- Using object-oriented programming to make complex classes interact with each other and the clients with increasing layers of abstraction, with JUnit tests to check correctness at each level.

TECHNICAL SKILLS

Git; **Linux**; **Python**, SQL libraries, Algorithms; **C**, Pointers and the Stack in C; **Java**, JUnit, Object-Oriented Programming, Data Abstraction; **JavaScript**; **TypeScript**, Backend Applications; **HTML**; **CSS**

WORK EXPERIENCE

Swim Instructor at WAVE Aquatics [APR 2021 - PRESENT]
- Teaching kids (from infants to young teenagers) to become more comfortable in the water, and then to improve their swimming skills. Leading them through each skill by both explaining and demonstrating it.
- Creating lesson plans tailored to each individual swim student, as well communicating with parents to keep them updated on their children's progress after every lesson
- Collaborating with other swim instructors, lifeguards, and managers on deck to make sure each child (especially infant) is always safe and happy.

EDUCATION

Inglemoor High School, Kenmore [SEP 2018 – JUNE 2022] — *Graduated Valedictorian*
- IB Computer Science; Computer Science Intro with WANIC at DigiPen

University of Washington, Seattle [SEP 2022 – (Expected Graduation) JUN 2025] — *Junior, GPA 3.84*
- Introduction to Computer Programming; The Hardware/Software Interface; Software Design and Implementation; Foundations of Computing I & II; Data Structures and Parallelism

Extracurricular Courses
- Introduction to Computer Science by Harvard on EdX.org; CS 101 by Stanford on EdX.org

PERSONAL SKILLS

- **Language proficiency** in Romanian, English, and French.
- **Work ethic** shown through dedication to being a high achiever, such as in pursuit of the IB Diploma.
- **Leadership** skills learned through being a swim instructor and honed through directing small peer study groups for difficult college classes, such as the calculus series.
- **Problem-solving** skills in coding learned and developed in several classes, such as reasoning through a problem before starting to tackle it and proving the correctness of functions.