JOSHUA SWANSON

Computer Science and Mathematics Student at University of Washington

Mobile:
Email:
LinkedIn: linkedin.com/in/jswa
Website: joshuaswanson.github.io

ABOUT ME

I'm a student at University of Washington pursuing a double degree in computer science and mathematics and aspiring for a career in artificial intelligence. I'm particularly interested in the fields of machine learning or natural language processing.

EDUCATION

University of Washington (UW)
Double Degree – B.Sc. in Computer Science, B.A. in Mathematics

Sep 2017 – Jun 2022
Seattle, WA

- Relevant Coursework: Software Design and Implementation, Data Structures and Parallelism, The Hardware/Software Interface, Matrix Algebra with Applications, Advanced Multivariable Calculus

École Polytechnique Fédérale de Lausanne
Study Abroad – Masters Level Coursework in Computer Science

Sep 2020 – Jul 2021 (expected)
Lausanne, Switzerland

EXPERIENCE

Tutor
UW Office of Minority Affairs & Diversity

Jan 2019 – Present
Seattle, WA

- Tutor students in mathematics, up to and including differential equations, matrix algebra, multivariable calculus, and real analysis
- Work one-on-one with UW students to tutor Java programming
- Assist students in writing, testing, and documenting their code
- Analyze and debug code written by students and provide feedback

First-Year Interest Group (FIG) Leader
UW First-Year Programs

Mar – Dec 2018
Seattle, WA

- Taught twenty-one UW freshmen in a weekly discussion-based seminar
- Provided academic, social and wellness guidance and resources available at UW
- Collaborated with program coordinators and peers to produce tailored lesson plans

PROJECTS

Dynamic Memory Allocator

- Implemented malloc and free using a doubly-linked explicit free list in C

Campus Pathfinder

- Web application that allows user to select two buildings on UW campus, then uses Dijkstra's algorithm to find the shortest walking path between them

SKILLS

Programming Languages

- Java
- C
- Python
- Swift
- Assembly Language for x86-64

Web Development

- HTML
- CSS
- JavaScript

IDEs

- IntelliJ IDEA

Graphic Design

- Adobe Photoshop
- Adobe Illustrator

Other

- LaTeX

Languages

- English (Native)
- French (Intermediate)
- German (Beginner)