

NATHANIEL FLORES

Williamstown, MA, USA

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EDUCATION

Williams College

Bachelor of Arts in Geosciences

Expected June 2027

Williamstown, MA

Columbia University (Kyoto Consortium for Japanese Studies)

Summer intensive language course at Doshisha University campus

June - July 2024

Kyoto, Japan

RELEVANT COURSEWORK

- Structural Geology
- Mineralogy & Petrology
- Carbon
- Mastering GIS
- Remote Sensing
- Database Programming
- Cryosphere
- Computer Organization

EXPERIENCE

Williams Students Online

Club President

September 2024 – Present

Williamstown, MA

- Designed and implemented a [completely new mobile app](#) for the college, with over 2,000 active weekly users
- Identified and fixed system state problems with Ansible and Docker, automating backup & restore of server infrastructure, achieving over 99% uptime and automated deployment of the production software environment
- Collaborated with college IT and course registrar to port popular features from WSO to internal college infrastructure

GEOS 290: Data Analysis in Earth Science

Teaching Assistant

February 2026 – May 2026

Williamstown, MA

- Mentored students in essential programming languages such as R, Python, and MATLAB and taught key mathematical concepts from calculus, linear algebra, and differential equations
- Ran weekly office hours and graded student work in a timely manner, providing code style feedback

GEOS 274: Spatial Analysis & Environmental Change

Teaching Assistant

August 2025 – December 2025

Williamstown, MA

- Co-authored brand-new curriculum on using spatial statistics for geoscience majors, with a focus on industry-standard technologies such as Google Earth Engine and building coding skills
- Ran regular office hours and did weekly meetings to continue adapting course to student feedback

RESEARCH

University at Buffalo ACT Hydro Lab (NSF REU)

Research Assistant

May 2025 – August 2025

Buffalo, NY

- Wrote High Performance Computing code with industry-standard Python libraries for a 128-core supercomputer
- Analyzed climate model outputs to investigate the changing role of runoff in Arctic regions under climate change
- Presented research findings [at AGU 2025](#); working to publish results in paper at a later date
- Wrote [custom Python library](#) for handling expensive data operations, published software to PyPi

LEADERSHIP / COMMUNITY INVOLVEMENT

Geosciences Student Advisory Committee

Board Chair

September 2024 – Present

Williamstown, MA

- Coordinated and executed initiatives & events to increase the student diversity of the major
- Oversaw networking and informational sessions on the department's course offerings
- Advised students on how to apply for REUs and summer opportunities

Computer Science Student Advisory Committee

Class of '27 Major Representative

October 2025 – Present

Williamstown, MA

- Built community through monthly student-faculty events and student activities
- Advocated to faculty for more computer science education in the physical sciences
- Improved first-year access to hands-on computer science opportunities around campus

TECHNICAL SKILLS

Technical Areas: GIS, Classical Machine Learning, Backend Dev, Frontend Dev, App Dev, Systems Programming, DevOps

Programming Languages: Python, MATLAB, R, Swift, Java/C#, C, x86-64 Assembly, Go, Fortran, Bash

Foreign Languages: Japanese (Intermediate, approx. N3), Spanish (Beginner, heritage speaker)

Certifications: FCC General Class Amateur Radio License, Wilderness First Aid & CPR (SOLO School)