NATHANIEL FLORES

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EDUCATION

Williams College   **Expected June 2027**
Bachelor of Arts in Geosciences   *Williamstown, MA*

Columbia University (Kyoto Consortium for Japanese Studies)   **June - July 2024**
Summer intensive language course at Doshisha University campus   *Kyoto, Japan*

RELEVANT COURSEWORK

- Structural Geology
- Mineralogy & Petrology
- Sedimentology
- Mastering GIS
- Remote Sensing
- Advanced Algorithms
- Spatial Analysis (TA)
- Computer Organization

EXPERIENCE

Williams Students Online   **September 2024 – Present**
Vice President, Head of DevOps   *Williamstown, MA*
- Designed and implemented new CI/CD pipeline for reproducible deployments with Docker, reducing bugs and increasing server performance
- Identified and fixed system state problems with Ansible, automating backup & restore of server infrastructure, achieving over 99% uptime and automated deployment of the production software environment
- Authored onboarding coding skills course for DevOps & mentored new, regular contributors to the organization
- Created dashboard to monitor key site analytics with Prometheus and Grafana to further optimize backend performance

GEOS 274: Spatial Analysis & Environmental Change   **August 2025 – December 2025**
Teaching Assistant   *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)   **May 2025 – August 2025**
Research Assistant   *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 handing expensive data operations, published software to PyPi

LEADERSHIP / COMMUNITY INVOLVEMENT

Geosciences Student Advisory Committee   **September 2024 – Present**
Board Member   *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

Williams Outdoor Orientation for Living As First-Years   **August 2024**
Trip Leader   *Williamstown, MA*
- Planned and organized an outdoor orientation trip for nine freshman students
- Completed training on CPR, First Aid, and leadership skills

TECHNICAL SKILLS

Technical Areas: GIS, Backend Dev, Systems Programming, DevOps, Docker, Git, Apache, Prometheus, Grafana
Programming Languages: Python, MATLAB, Java, C, Go, Bash
Foreign Languages: Japanese (Intermediate, approx. N3), Spanish (Beginner, heritage speaker)
Certifications: FCC General Class Amateur Radio License, FAA Part 107 (Commercial Drone License), Wilderness First Aid & CPR (SOLO School)