

# Nicholas Mowery

810-835-7490 • Bloomington, IN • nbmowery@iu.edu

## EXPERIENCE

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### Full-Stack GIS Developer

May 2020 - Present

CIRC | Bloomington, IN

- Working with NASA JPL on the AIST-Quakes team
- Implementing new software stack for GeoGateway (Science gateway for geophysics @ JPL).
- GeoGateway is a data product search and analysis gateway for scientific discovery, field use, and disaster response ([JPL info page](#))
- Some of the technologies used include: Vue.js, Django, Leaflet, Webpack, Docker, Apache Airavata

### Student Developer

May 2020 - Sept. 2020

Google Summer of Code @ Apache Software Foundation | Bloomington, IN

- Worked to improve Open Source project, Apache Airavata
- Migrated independent science gateway to Apache Airavata platform
- learned what it means to be a part of an open source project and community

### Digital Project Assistant

Apr. 2019 - Sept. 2019

Indiana Geological and Water Survey | Bloomington, IN

- Developed virtual map tours for the Megajeff IU Bicentennial project (published on [igws.indiana.edu](#))
- Created custom HTML, CSS, and JavaScript for digital exhibit
- Worked with and develop 3D models of fossilized remains
- Worked with Indiana Geological map database

### Instructional Technology Consultant

Apr. 2018 - April 2020

IUB CITL | Bloomington, IN

- Consult faculty on use of instructional technologies
- Develop unique instructional tools for faculty
- Consult faculty on course development and enhancement
- Collaborate with Instructional Designers to establish effective course standards.
- Develop instructional courses for teaching assistant training

### Undergraduate Instructor

Aug. 2019 - Dec. 2019

IUB Luddy School | Bloomington, IN

- Co-teach a lab section of 20 students (functional programming course CSCI-C211)
- Hold office hours to help students with homework and grade homework and tests.

## EDUCATION

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Indiana University Bloomington ([Hutton Honors College](#)) | Computer Science BS

Expected: Spring 2021

- GPA: 3.8/4.0
- *Specialization:* Systems | *Minors:* Philosophy, Philosophy of Science
- President of IUB Philosophy Club
- Computer Science Club, Chess Club, Founders Scholar, Luddy Student Scholarship, UROC Program

## SKILLS (\* = highly proficient)

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**CS:** Java | \*Python | C | \*JavaScript | \*HTML/CSS | \*Unix | Embedded Systems | MySQL | Data Analysis | ML in Python | Dynamic Programming | \*Vue.js | Django | React | \*GIS Dev | Algorithm Analysis | \*Data Struct.

**General:** Bilingual (English/Spanish), Technical Writing, Interpersonal Communication, Cooperation