Wyn Nelson

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Work Experience

Full-Stack Web Developer　　**Institute for Transportation Research & Education**　　Jan 2021 – Current

- Developed and designed for 6 applications across 4 different program groups.
- Built a Restful API and a Chart.js-powered dashboard to create a web-based data auditing tool using Node.js, Express, and MySQL.
- Found and implemented improvements to the data monitoring process by automating data pulls, quality assurance scripts, and equipment status reports.
- Designed, implemented, and deployed a full-stack web application for transportation system drivers using React and Node.js deployed on AWS.

Teaching Graduate Student　　**North Carolina State University**　　2016 – Dec 2020

- Taught Precalculus, Calculus I, and Discrete Maths to over 150 students while being the lead instructor of 4 undergraduate courses.
- Scored at or above the departmental mean in 16 of 16 and 10 of 12 student evaluation metrics in the last two courses taught.

Research Intern　　**Cell Signaling Technology**　　Summers 2015, 2016

- Leveraged graph theory definitions of centrality to identify DNA sequencing artifacts. Earned buy-in by creating Python visualizations with the Matplotlib Pyplot library.

Education

M. Sc. Mathematics　　**North Carolina State University**　　2016 – 2018

B. Sc. Mathematics　　**Gordon College**　　2012 – 2016

- Minor in Computer Science, graduated *summa cum laude*

Technologies & Languages

Languages　　Javascript, HTML/CSS, Python

Technologies　　Node.js, Express.js, React, MySQL

Other　　Wireframing, API Design, Information Architecture

Interests

- Avid reader (especially of Urban Planning), block printing, Scrabble