Mara Nelson

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Work Experience

Full-Stack Web Developer   **Apple, contracted through Bayside Solutions**   Jan 2022 – Current

- Worked directly with product stakeholders to design and develop features for internal tooling that leveraged a React frontend, Java backend, and PostgreSQL database
- Identified and facilitated refactor and migration effort that led to delivery of self servicing features; empowering clients and reducing turnaround time of data onboarding
- Served as primary point of contact for ensuring high polish and company-consistent user interfaces across team

Full-Stack Web Developer   **Institute for Transportation Research & Education**   Jan 2021 – Jan 2022

- 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.

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, Java

Technologies   Node.js, Miro, React, MySQL

Other   Wireframing, API Design, Information Architecture

Interests

- Ultimate frisbee, reading (esp. about urban planning), hand tool woodworking