Mara Nelson

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Work Experience

Full-Stack Software Engineer   **Apple, contracted through Bayside Solutions**   Jan 2022 – Current

- Partnered directly with product stakeholders to define requirements and served as the principal developer for Apple's Wallet & Payments' incident management tooling (React/Java), delivering key analytics utilized by upper management.
- Eliminated a critical bottleneck in incident metadata management by leading a team of two through a complex project involving DB/backend refactoring and migration, delivering a self-service web tool that empowered IM leaders and improved data auditability.
- Drove UI consistency and adherence to company style guides by building reusable components using the internal design system, improving code maintainability and accelerating feature development.

Full-Stack Software Engineer   **Institute for Transportation Research & Education**   Jan 2021 – Jan 2022

- Engineered a full-stack, semi-automated data auditing application, implementing a RESTful API (Node.js, Express, MySQL) and a dynamic data visualization dashboard (JavaScript, Chart.js).
- Automated data monitoring processes (data pulls, QA scripts, status reports), improving data accuracy and reducing manual reporting time.
- 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   React, Node.js, Storybook, MySQL

Other   Wireframing, API Design, Information Architecture

Interests

- Ultimate frisbee, reading (esp. about urban planning), card magic