



# Dylan Phelan

Lead Web Developer @ MITRE

[dylanphelan.tech](https://dylanphelan.tech)

[Dtphe1an1@gmail.com](mailto:Dtphe1an1@gmail.com)

[@dtphelan1](https://github.com/dtphelan1)

[/dtphelan1](https://www.linkedin.com/in/dtphelan1)

Hi, I'm Dylan! I'm a web developer with 6+ years experience working on healthcare, social justice, and benefits delivery projects. I've created UI's using React and Vue, CLIs and APIs using Node.js and Python, ML models using Python, and architecture diagrams/roadmaps to support projects as a technical lead.

Nava Resume

## Education

### MS, Tufts University

Computer Science  
2018 - 2021, 4.00  
Completed Part-Time

### BS, Tufts University

Computer Science, Minor in Philosophy  
2012 - 2016, 3.87  
Summa Cum Laude

## Skills

●● > 6m   ●●● > 1yr   ●●●● > 2yr   ●●●●● > 4yr

|                  |       |
|------------------|-------|
| HTML             | ●●●●● |
| React            | ●●●●● |
| Vue              | ●●●●○ |
| Create React App | ●●●●● |
| Nuxt.js          | ●●●●○ |
| Next.js          | ●●○○○ |
| Bootstrap        | ●●●●○ |
| CSS              | ●●●●● |
| Tailwind         | ●●●●○ |
| SASS             | ●●●○○ |
| JavaScript       | ●●●●● |
| Node.js          | ●●●●○ |
| Python           | ●●●●○ |
| HL7's FHIR       | ●●●●○ |
| GitHub Pages     | ●●●●○ |
| Vercel           | ●●○○○ |
| Docker           | ●●●○○ |
| CI/CD            | ●●●●○ |
| Automation       | ●●●●○ |
| Eslint/Prettier  | ●●●○○ |
| Balsamiq         | ●●●○○ |

## Experience

### MITRE Corporation

Technical lead, developer, intern  
lead, dept. presentation coordinator

Lead Web Dev, 2021 - Now  
Senior Web Dev, 2018 - 2021  
Web Dev, 2016 - 2018

- Current technical lead & developer on MITRE's oncology moonshot, accelerating cancer data-standards adoption with Open Source applications for data capture, transformation, and visualization
- Prior technical lead & developer for 3+ software teams in charge of Open Source web applications, CLIs, APIs, visualizations, rich-text editors, multipage forms, and more
- Developer for 12+ MITRE projects in oncology, social justice, benefits delivery, and COVID-19
- Runs department presentation series, executed 25+ presentations and project feedback sessions
- Co-leads department internship program, mentoring 12+ undergraduate and graduate interns

## Work Projects

### Unemployment Benefits UI Prototype

Tech Lead & Web Dev, Mar - Sept 2022

Streamline unemployment insurance benefits

Vue Nuxt Tailwind Express

- Created Vue UI to enable research on improving user experience for accessing unemployment benefits
- Implemented Express API for creating, updating, and reviewing unemployment applications
- Distilled MVP requirements from EOY objectives and research team's experimental scenarios
- Balanced competing needs for a rapid prototype and potential use-case pivots

### MITRE's Social Justice Platform



Web Dev, Jan - Sept 2022

Exhibit MITRE's social justice work in one place

Vue EJS NGINX Express

- Coordinated with MITRE researchers to build web-based interactive report, "The Racial Wealth Gap and Your Household Finances"
- Ported Streamlit and NumPy prototype to HTML/EJS aligned with sjp.mitre.org's design system
- Integrated Chart JS into our admin-authoring tools, visualizing data with bar and line charts
- Implemented markdown preview in resource-authoring and rendering on resource-detail views
- Implemented custom URLs on resources at the admin-authoring and page-routing level

### FluxNotes



Tech Lead & Dev, 2017-2019

Re-imagine the clinical note taking experience

React Material UI SCSS FHIR

- Built a SMARTonFHIR React web application for reducing clinician burden collecting cancer data
- Leveraged SlateJs rich-text editor for inline suggestions and data tagging in clinical notes
- Visualized patient data with ReCharts and custom HTML visualizations
- Enabled data provenance tracking via linking to source notes and Elasticsearch document queries
- Received praise from oncologists and MITRE executives, motivating future research on novel data capture techniques