



Dylan Phelan

Lead Web Developer @ MITRE

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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.

[React 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

Radiation Therapy Treatment Data (RTTD) App

Tech Lead & Web Dev, May 2022 - Now

Empower discussions on radiation data standards

[React](#) [Tailwind](#) [FHIR](#)

- Built a React app for reviewing data models for cancer radiation treatment summaries, enabling radiation data exchange for care coordination and multi-purpose reuse
- Used Axios to fetch data from FHIR servers and FHIRPath to isolate relevant data for visualizations
- Conducted requirements solicitations from MITRE's RTTD team to enable pen/paper mockups
- Delivered initial prototype within 3 weeks, enabling rapid external stakeholder interviews
- Iterated application based on stakeholder feedback, supporting new request headers, reformatted visualizations, and better metadata displays

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

Personal Projects

Vote Smart Arlington

Lead Designer & Web Dev, Apr 2021

Learn how representatives vote on Arlington measures

[Sketch](#) [React](#) [Bootstrap](#) [Node](#)

- Created a React webapp and Express backend showing voters how their representatives voted on town measures
- Visualized voting history of 100+ town representatives on ballot measures with React Table
- Organized a team of three devs to build the tool in 14 days, deploying before Arlington's election
- Garnered appreciation from multiple local representatives, >1000 visits during local election week