

# Dylan Hensel

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**Skills – Strong:** Typescript, React, Node.js, Git, UI, Webpack, JSX, TSX, CSS, UX, OOP, HTML, Express, GitHub, Sass, Redux, JSON, Gatsby.js, Yaml, Cypress, Docker, Ruby on Rails, Jenkins, Cypress, Linux/Unix, Google Cloud Platform, GraphQL, Nest.js, Next.js, Git,

**Experienced:** SQL databases, Python, Ruby, webdriverIO, Test Rails, Jest, Redux Thunk, React Router, Enzyme, Puppeteer, NoSQL, Axios, BCrypt, Java, OAuth, AWS, React Bootstrap, Travis CI, C#, memory leaks, HTML5 Video Playback, Websockets

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## FanFix □ Engineering Manager

October 2024 – January 2025

- ◆ Led multiple teams of contractors across numerous time zones, incorporating their work with inhouse engineering teams, across multiple **monorepos**; improving code quality through stricter linting and review standards and utilizing automated workflows with **Husky** and **Dependabot**
- ◆ Improved cross-functional collaboration between Engineering and Product teams using **AI** tools, **Jira**, and enhanced documentation practices in **Confluence** enhancing communication and ensuring alignment on priorities and deliverables
- ◆ Strengthened security protocols, including **Recaptcha** for protected endpoints, optimized **authentication token** management, and dynamic **cloud container** scaling to thwart **DDoS** attacks, ensuring **PCI compliance**.
- ◆ Leveraged **data science** insights to deliver actionable metrics that improved key business **KPIs** and supported strategic decision-making.

## FanFix □ Senior Software Engineer

2022 – October 2024

- ◆ Transitioned the monolithic web application to a scalable **microservices** architecture using **Next.js** (frontend) and **Nest.js** (backend) ensuring modularity and maintainability.
- ◆ Enhanced frontend performance by optimizing **React** using **Hooks**, implementing **Redux** for improved state management, and incorporating **Material-UI** for a polished and accessible user interface.
- ◆ Utilized **TypeORM** and **MikroORM** for efficient database operations, enabling advanced query handling, schema migrations, and seamless integrations across multiple environments.
- ◆ Helped design and deploy containerized applications with **Docker** and orchestrated workloads using **Kubernetes** for high availability and horizontal scaling to meet dynamic traffic demands.
- ◆ Optimized backend systems with dynamic cloud scaling on **Google Cloud Platform (GCP)**, reducing latency and ensuring resource efficiency during peak traffic.
- ◆ Championed test-driven development (TDD) using **Jest**, **WebdriverIO**, and **SuperTest**, ensuring reliability through automated API and UI testing, later pioneering new **QA** standards with **Cypress** integration in **GitHub Actions**
- ◆ Designed and developed a reusable component library and a cohesive **design system** based on **Figma** designs, streamlining development and ensuring consistency across the platform.

## Vineti □ Software Engineer

2021 – 2022

- ◆ Developed and maintained codebases for cell and gene therapy workflows using **TypeScript** and **Ruby on Rails** encrypting patient health data in a relational model within **PostgreSQL**
- ◆ Led Cypress automation, migrating the codebase to **TypeScript** and implementing Page Object Model for streamlined TDD and HIPAA compliance.
- ◆ Improved security standards and ensured HIPAA compliance in collaboration with the SVP of Security.
- ◆ Built **Jenkins CI/CD** pipelines and defined coding standards under VP of Quality mentorship.

## GatsbyHub □ Software Engineer

2020

- ◆ Built a **VS Code extension** within a **Node.js** runtime environment ensuring efficient NPM dependency management and API integration.
- ◆ Employed **Webpack** for code optimization, reducing latency with bundling, minification, and environment-specific builds.
- ◆ Automated workflows with **Travis CI** and **Jest**, enabling TDD and maintaining code quality with Airbnb linting standards.
- ◆ Developed a dynamic **TreeView**-based UI for Gatsby plugins, rendering metadata using **Webview API**.

## Direct Message Network within PodcastOne □ Technical Lead

2019 – 2020

- ◆ Built company's web-app to deliver high-content podcasts to listeners and fans, directing them towards parent company's (PodcastOne) native applications, while also offering embedded Spotify and Apple Podcast listening options
  - ◆ Leveraged **SEO** best practices to direct traffic to, and engage clients in, company's social media pages, to increase content downloads
  - ◆ Employed **Google Analytics** and other dynamic pattern recognition tools to examine and improve client interactions
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## Consulting and Non-Profit work:

### Vizzie360 □ Technical Consultant

2024 – present

- ◆ Advising a startup leveraging VR technology to promote healing by utilizing immersive digital experiences to aid physical and mental well-being.
- ◆ Assisting in the design and development of their software infrastructure, ensuring scalable and efficient VR applications.
- ◆ Providing insights on engineering best practices and emerging technology trends to enhance platform capabilities.

### Audai.org □ Technical Consultant

2021 – present

- ◆ Supporting a non-profit dedicated to enhancing the lives of individuals living in impoverished conditions in honor of Audai Shakour.
  - ◆ Assisting in planning and strategy to ensure sustainable and impactful solutions for underserved communities.
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**Education:** Bachelors from the University of Southern California 2013

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**Personal Interests:** Consulting for startups, supporting non-profits, advocating for the arts, tech community building, volunteering, musical theatre, live music, and fostering innovation in emerging technologies.