Senior Software Engineer

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 **KPI**s 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** (frontent) 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

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.

Education: Bachelors from the University of Southern California 2013

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.