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| Timothy HostetlerSoftware Engineer | | | [tim@thost.dev](mailto:tim@thost.dev)Maryland | | |
| Front-End Developer with 7+ years of experience leading the development of high-impact web applications, including NASA ADS's "Bumblebee" and "Nectar" projects. Proven track record of enhancing site performance and user experience, with a focus on accessibility and scalability. Demonstrated ability to drive significant project improvements, mentor teams, and implement modern web technologies. | | | | | |
| Professional Experience | | | | | |
| Astrophysics Data System, Cambridge, MAFull-Stack Web Developer | | | May 2017 — Present | | |
| **"Bumblebee" Project:**   * **Optimized Build Processes:** Achieved a 30% increase in site speed by implementing efficient build processes and comprehensive caching strategies, enhancing overall site reliability and user satisfaction. * **Maintained Legacy Systems:** Successfully maintained and improved a complex production environment built on Backbone and RequireJS, ensuring stability and usability for a global user base. * **Performance Optimization & Accessibility:** Spearheaded efforts to improve site speed by 50% through advanced bundling techniques and client-side caching strategies. Conducted accessibility audits, elevating the site’s compliance from A to AA standards and integrating accessibility best practices throughout the development life-cycle.   **"Nectar" Project:**   * **Led Modernization Efforts:** Spearheaded the transition to a modern tech stack using Next.js and TypeScript, resulting in considerable improvement in load times and enhanced security features. * **Accessibility Leadership:** Led efforts to ensure WCAG compliance, expanding our platform's accessibility and making data accessible to a broader audience, including those with disabilities.   **Cross-Functional Collaboration:**   * **"MyADS" Notification UI:** Directed the development and integration of a personalized notification system, increasing user engagement. Coordinated with UX designers and data curators to align the project with user needs and organizational goals. | | | | | |
| Intermedix, Pittsburgh, PASoftware Engineer | | | August 2014 — May 2017 | | |
| * **UI Toolkit Development:** Developed a standardized UI toolkit used across the company, streamlining the development process and ensuring a consistent look and feel across all applications. This initiative reduced development time for new features by 20%. * **Geo/Map Component Leadership:** Led the creation and enhancement of geo/map components, resulting in more accurate and efficient data visualization tools that improved user decision-making capabilities. | | | | | |
| EducationMS in Applied Computer Science Frostburg University, Frostburg, MD BS in Information Technology Robert Morris University, Pittsburgh, PA UX Engineering Harvard Extension School, Cambridge, MA | | | | | |
| Areas of Expertise | | | | | |
| ● JavaScript, TypeScript, Python, Java, Node.js  ● WCAG compliance, JAWS | | ● Next.js, React, Vue.js, Express.js, Fastify | | ● Google Analytics, Looker Studio, Google Tag Manager, Git, Docker, GitHub Actions | |
| Projects | | | | | |
| Design and Development of ADS User Interface ("Nectar"), ADS | | | January 2021 — Present | | |
| Led the design and implementation of a modern web interface using Next.js and TypeScript, focusing on speed, security, and accessibility. Enhanced site performance by 50% and elevated accessibility standards from A to AA. | | | | | |
| Web Accessibility Talk at ADASS 2022 and Paper Submission, ADS | | | October 2022 | | |
| Delivered a presentation on web accessibility challenges and solutions, sharing insights from leading accessibility audits and implementing best practices. | | | | | |
| Robotic Path Finding Using Simplified Simulated Annealing, Frostburg University | | | August 2012 — December 2012 | | |
| Designed a robot utilizing a simplified Simulated Annealing algorithm for pathfinding, demonstrating advanced problem-solving and programming skills. | | | | | |
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