

# Timothy Hostetler, Software Engineer

Maryland, tim@thost.dev

PROFILE	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.
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## EMPLOYMENT HISTORY

May 2017 — Present	Full-Stack Web Developer, Astrophysics Data System	Cambridge, MA
<b>"Bumblebee" Project:</b> <ul style="list-style-type: none"><li><b>Optimized Build Processes:</b> Achieved a 30% increase in site speed by implementing efficient build processes and comprehensive caching strategies, enhancing overall site reliability and user satisfaction.</li><li><b>Maintained Legacy Systems:</b> Successfully maintained and improved a complex production environment built on Backbone and RequireJS, ensuring stability and usability for a global user base.</li><li><b>Performance Optimization &amp; Accessibility:</b> 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.</li></ul>		
<b>"Nectar" Project:</b> <ul style="list-style-type: none"><li><b>Led Modernization Efforts:</b> Spearheaded the transition to a modern tech stack using Next.js and TypeScript, resulting in considerable improvement in load times and enhanced security features.</li><li><b>Accessibility Leadership:</b> Led efforts to ensure WCAG compliance, expanding our platform's accessibility and making data accessible to a broader audience, including those with disabilities.</li></ul>		
<b>Cross-Functional Collaboration:</b> <ul style="list-style-type: none"><li><b>"MyADS" Notification UI:</b> 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.</li></ul>		
Aug 2014 — May 2017	Software Engineer, Intermedix	Pittsburgh, PA
<ul style="list-style-type: none"><li><b>UI Toolkit Development:</b> 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%.</li><li><b>Geo/Map Component Leadership:</b> Led the creation and enhancement of geo/map components, resulting in more accurate and efficient data visualization tools that improved user decision-making capabilities.</li></ul>		

## EDUCATION

2010 — 2012	MS in Applied Computer Science, Frostburg University	Frostburg, MD
2006 — 2010	BS in Information Technology, Robert Morris University	Pittsburgh, PA
2017	UX Engineering, Harvard Extension School	Cambridge, MA

SKILLS	JavaScript, TypeScript, Python, Java, Node.js Next.js, React, Vue.js, Express.js, Fastify	Google Analytics, Looker Studio, Google Tag Manager, Git, Docker, GitHub Actions WCAG compliance, JAWS
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PROJECTS

Jan 2021 — Present	<div>Design and Development of ADS User Interface ("Nectar")</div> <div>ADS</div> <div>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.</div>
Oct 2022	<div>Web Accessibility Talk at ADASS 2022 and Paper Submission</div> <div>ADS</div> <div>Delivered a presentation on web accessibility challenges and solutions, sharing insights from leading accessibility audits and implementing best practices.</div>
Aug 2012 — Dec 2012	<div>Robotic Path Finding Using Simplified Simulated Annealing</div> <div>Frostburg University</div> <div>Designed a robot utilizing a simplified Simulated Annealing algorithm for pathfinding, demonstrating advanced problem-solving and programming skills.</div>