

Benjamin Heinen

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Education

University of Minnesota, Twin Cities <i>Bachelor of Science in Computer Science</i> <ul style="list-style-type: none">GPA: 4.0/4.0Relevant Coursework: Algorithms and Data Structures, Programming in C, Programming Concepts, Computing and Problem Solving, Calculus 2	Minnesota <i>May 2026</i>
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Skills

Languages: C, HTML/CSS, Java, JavaScript, Python, SwiftUI, TypeScript
Frameworks/Libraries: NodeJS, React, ChakraUI, NumPy, PyGame
Tools: Firebase/Firestore, Git, MySQL, Unix, Docker
Concepts: Data Structures, Machine Learning, Object-Oriented Design, Software Engineering, Web Development, UX

Experience

Full-Stack Developer <i>APAS Extension</i> <ul style="list-style-type: none">Developed a Chrome extension using JavaScript, HTML and CSS to enhance APASCollaborated with students to identify and resolve performance issues, leading to a more efficient productEnhanced UX by rewriting front-end protocols, making the interface more intuitive and user-friendlyImproved back-end functionality by implementing processes that met performance and security standards	June 2024 - Present <i>Social Coding @ UMN</i>
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Projects

heinen.lol React, ChakraUI, Firebase/Firestore <ul style="list-style-type: none">Engineered a highly responsive and visually appealing portfolio website utilizing React and Chakra UI, effectively highlighting professional achievements and project showcasesLeveraged Firebase to implement seamless real-time data synchronization and analytics	March 2024 - Present
Raycasting Engine Python, PyGame, NumPy <ul style="list-style-type: none">Computed matrix transformations using NumPy and PyGame libraries to optimize the engine, improving computational efficiency and accuracy in rendering 3D scenes	March 2024
Data Structures Repository Java <ul style="list-style-type: none">Spearheaded the collaborative development of a comprehensive library containing essential data structures and examples with peers in a classroom settingEngineered optimized implementations of data structures to enhance performance and speed, resulting in improved efficiency	Jan 2024 - June 2024