Zach Becker

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Education

09/20 – 06/24 (expected)	**NORTHWESTERN UNIVERSITY (McCormick School of Engineering)** **Major:** Computer Science **Current GPA:** 3.92/4.00 **Honors:** McCormick Honors Student every quarter, inducted into Tau Beta Pi Engineering Honor Society during fall of junior year for having a GPA in the top 1/8 of engineering students **Relevant Completed Coursework:** Linear Algebra, C and C++, Multivariable Calculus for Engineers, Data Structures and Algorithms, Systems Programming in C and x86 Assembly, AI in Python, Computer Programming in ARM assembly, Databases in SQL and Java, Machine Learning in Python, Game Development in C# and Unity, Design and Analysis of Algorithms, Intro to Computer Graphics in Javascript, HTML, and WebGL	**Evanston, IL**
08/16 – 05/20	**NEW TRIER HIGH SCHOOL** **GPA:** 5.10/5.33 (weighted) 3.92/4.00 (unweighted) **Honors:** National Merit Scholarship Commended Student – October 2019, High Honor Roll – All 8 Semesters, National Latin Honor Society (9, 10 & 11), National Latin Exam Medalist (9 & 10), Achievement in Mathematics Departmental Award (11), AP Scholar with Honor (11), Illinois Student Assistance Commission – 2020-21 State Scholar.	**Winnetka, IL**

Relevant Non-School Experiences

Summer 2022	**Sky Road, LLC – Intern** • Worked on Tempo Development Team • Implemented the charting of financial data within the Tempo Application • Utilized AngularJS, HTML, and dc.js to create interactive graphs	**Chicago, IL**
Summer 2020 Summer 2021	**CFI Partners, LLC – Intern** • Worked directly with Chief Technology Officer and Managing Partner • Wrote VBA macros to streamline and automate data processes in Excel. The primary tool was used in CFIP's COST Fund, which generated over 40% returns during the initial COVID crisis • Implemented solutions to pull data from Moody's Analytics and Bloomberg • Developed financial analysis tool in Excel using VBA to automate CLO IRR analysis • Learned critical communication skills in the workplace	**Chicago, IL**
2023	**Evanston District 65 Computer Science Educator / Volunteer** • Member of volunteer team working in Evanston 5th grade computer science classrooms during the 2023 winter and spring quarters at Northwestern University • Assisting teachers who do not have computer science education training in teaching students TunePad, which is a website meant to teach kids python through music • Through TIDAL and TIILT labs at Northwestern, who have a joint project aiming to understand how to teach computer science more inclusively	**Evanston, IL**

2016-2019	**Online Computer Science Courses**
	• Completed online coursework on Udemy.com in my free time
	  ○ C# - Basics for Beginners; Intermediate; Advanced Topics
	  ○ Databases (SQL) – SQL For Beginners; Entity Framework in Depth
	  ○ Video Game Development (Unity) – The Ultimate Guide to Game Development with Unity 2019
	• Created an original video game application, *Color Racer*, using Unity and C# (available on the Google Play Store).
		Wilmette, IL

2016-2019	**Harvard University Pre-College Summer School – Two Week Program** • Completed a 30-hour Computer Science course on Programming and Data Visualization pertaining to astrophysics • Participated in six seminars on current intellectual/societal issues ranging from the psychology of colorblindness to how to approach difficult conversations	**Cambridge, MA**