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# Zachary B. Fertig

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Visit my website at: <https://www.zfertig.com/>

## INTERACTIVE MEDIA | COMPUTER SCIENCE | GAME DESIGN | SOFTWARE ENGINEERING

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### AREAS OF KNOWLEDGE

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Game Design | Game Development | Unity Development | C# | Unreal Development | C++ | Adobe Suite | Java | Python | Problem Solving | Graphic Design | SCRUM | Agile | Software Development | Swift | IOS Development | Web Design | Full Stack Web Development: HTML5 | CSS | JavaScript | PHP | Web Applications

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### EDUCATION

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**Master of Arts** in Interactive Media Expected May 2022  
Elon University | Elon, NC

**Bachelor of Arts** in Mathematics and Computer Science | Magna Cum Laude May 2021  
Elon University | Elon, NC

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### RELATED PROFESSIONAL EXPERIENCE AND INTERNSHIPS

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**Epic Games** August 2022 to Present  
**QA Tester – Epic Online Services** Cary, NC

*Perform tests and problem solved to find and communicate issues in the Epic Online Services SDK.*

- Execute test cases with attention to detail to help ensure the quality of the product
- Perform both functional and subjective testing and separate the two properly
- Thoroughly investigate and analyze issues to find root causes

**Center for Design Thinking** September 2021 to June 2022  
**Web Developer and Graphic Designer** Elon, NC

*Manage all aspects of the website, including creating new pages and inserting multimedia content.*

- Create graphics and promotional material for workshops and events which are posted online and printed for display on campus
- Design and create promotional objects using a laser engraver and 3D printers
- Automated the organization, tracking, and registration process for workshops

**Niños de Nueva Esperanza** Fall 2021  
**Web Developer and Social Media Specialist** Toa Baja, Puerto Rico

*Collaborated with a team of seven graduate students assisting at Niños de Nueva Esperanza, a nonprofit that bridges academic, psychosocial, and extracurricular support gaps to children and youth in the Sabana Seca area of Toa Baja, Puerto Rico. In this graduate-level work simulation, the team created a new website and managed all Social Media accounts.*

- Created mockups and wireframes for an online platform
- Built a new website and organized web content with video clips and pictures
- Developed a social media messaging strategy and created messages that were consistent in tone and design, designed graphics for use on the website and social media platforms

**Biobeat Technologies** Spring/Summer 2021  
**iOS Developer Intern** Petah Tikvah, Israel

*Biobeat's monitoring platform measures vital signs in real-time using wireless, non-invasive, medical-grade technology. During the pandemic, the need for remote viewing of a patient's vital signs was essential to the safety of hospital staff, and Biobeat grew exponentially.*

- Identified issues and optimized opportunities in the iOS platform using Swift, fixed bugs for new features and Bluetooth connectivity, and managed communication between the application and web platforms by utilizing React and AWS services

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## CERTIFICATIONS

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<b>PHP Essential Training</b>   LinkedIn	July 2020
<b>Certification Prep Course: Unity Fundamentals</b>   LinkedIn	July 2020
<b>Programming Foundations: Databases</b>   LinkedIn	July 2020
<b>Unity</b>   LinkedIn	January 2021
<b>Swift (Programming Language)</b>   LinkedIn	April 2022

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## VOLUNTEER EXPERIENCE

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<b>Elon Esports</b>	<b>Fall 2019 to Spring 2022</b>
<b>Event Chair &amp; Team Captain</b>	<b>Elon, NC</b>

*Led a team of volunteers to complete specific tasks related to various charitable events. Manage social media accounts, including Twitter and Instagram. Create marketing materials to advertise events—liaison for collaboration with clubs and sponsors.*

- Organize weekly, monthly, and annual social events
- Host charity events such as the Extra Life Stream for a children's hospital

<b>North Carolina Congressional Applications Development Competition</b>	<b>Fall 2020</b>
<b>Co-Judge</b>	<b>Elon, NC</b>

*Selected to work alongside a highly regarded professor to analyze the submitted applications and choose a competition winner.*

<b>Positive Attitude Youth Center</b>	<b>Fall 2018 &amp; Spring 2019</b>
<b>Volunteer Leader</b>	<b>Elon, NC</b>

*Managed groups of volunteers and worked one-on-one with students at the Western Alamance High School and the Harvey R. Newlin Elementary School.*

- Helped students with one-on-one tutoring and coaching for specific needs or areas identified as needing improvement
- Shadowed and assisted teachers who graciously allowed me to teach math lessons and facilitate experiential activities with the students

<b>Elon University Crime Studies Club</b>	<b>Fall 2017 &amp; Spring 2018</b>
<b>Treasurer</b>	<b>Elon, NC</b>

*Worked collaboratively with club leaders to plan budgets and resources needed for events.*

- Maintained budget and securely managed club funds

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## PERSONAL REFERENCES

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Dr. Pratheep Paranthaman, Professor at Elon University

Email: [pparanthaman@elon.edu](mailto:pparanthaman@elon.edu)

Dr. Danielle Lake, Director at Center for Design Thinking

Email: [dlake@elon.edu](mailto:dlake@elon.edu)