

JOSIAH ZACHARIAS

MEADOWBROOK · SEATTLE, WA 98125

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SKILLS

Languages & Software: Typescript, React.js, C++, Java, HTML, CSS, PHP, JavaScript, Python, Node.js, and MySQL. Knowledge of WebGL, MATLAB, Windows, Unix/Linux, and OS X.

UX/UI & Design: Firm grasp on methodologies to wireframe, design, and illustrate stories to communicate effectively. Proficient in Adobe Creative Suite (esp. Photoshop, Illustrator, InDesign, After Effects).

Processes & Tools: Agile, Scrum Kanban, XP, AWS, and Git.

Laboratory: 3D printing, Augmented Reality interface design and functioning knowledge of CAD implementation. Experienced with gene editing, microbiological and other common histochemical techniques from biochemistry background.

Foreign Languages: Spanish speaker.

PROFESSIONAL EXPERIENCE

Microsoft (via Webtellect) Redmond, WA 2021 – current

UX Engineer

- Working in SharePoint and OneDrive to craft elegant user experiences throughout the suite of Microsoft services.
- Implementing A/B and automated tests to test UI change impacts alongside UX designers.
- Developing in Typescript, JavaScript, and React.js

Electric Pen Seattle, WA 2015 – 2021

Web Application Developer, Designer and UX/UI Researcher

- Deployed a \$100K web application on Azure with custom APIs incorporating PHP and MySQL for a local multinational company to train on using a popular videoconferencing software.
- Designed wireframes and visual mockups in Adobe Illustrator/Photoshop and Sketch, working in HTML, CSS, and JavaScript libraries like React.js and Node.js to design function prototypes through final implementation.
- Other duties include brand framework ideation, illustration, and animation.

Vanderbilt University Medical Center Nashville, TN 2013 – 2015

Research Assistant, Statistician, and Lab Manager

- Coordinated the creation of a \$30k cell culture laboratory in three months, from inventory procurement to management and launch.
- Devised a novel 3D skin model to study cancer, using statistical models developed in R and MATLAB/Java to refine and pave the way for publication.
- Other duties included training PhD candidates, budgeting and fast-paced project management.

EDUCATION

University of Washington Bothell, WA 2021 - current

Master of Computer Science and Software Engineering

Study with emphasis in computer vision, cybersecurity, cloud-based services, and machine learning.

Graduate Certificate in Software Design & Development – GPA 3.94 Bothel, WA 2019–2020

Graduated in June 2020. Extensive studying based in Java, C++, and test-driven development.

Relevant coursework — Data Structures and Object-Oriented Programming I and II, Systems Programming, Software Development Processes, Software Modeling Techniques, Software Testing and Quality

School of Visual Concepts Seattle, WI 2016–2018

Various classes including Typography, Graphic Design, UX/UI, Web Design, and Screen printing

Self-motivated interest to pursue design courses and understand the human psychology of layout and color.

Trinity International University (GPA 4.0) Deerfield, IL 2008–2012

Bachelor of Arts (BA) – GPA 4.0

Double majored chemistry and biology in Honors program; *summa cum laude*.

RECENT PROJECTS

- . Experimenting with WebGL to create virtual 3D scenes in parallax to create [new forms of art](#).

LEADERSHIP AND VOLUNTEER ACTIVITIES

- . Volunteer research/developer/designer on the EYE Team to provide immersive AR experiences for vision-disabled youth in the Native American community, working under Dr. Bill Erdly (2021 – Present)
- . Photographer and woodworking volunteer at the Center for Wooden Boats in Seattle (2016 – Present)
- . Docent and assistant animal caretaker at the Nashville Zoo (2014 – 2015)
- . Science and math tutor for at-risk youth at the Oasis Center in Nashville (2013 – 2014)
- . Laboratory teaching assistant in chemistry and biology at Trinity College (August 2009-May 2012)
- . High School Team leader of a river monitoring project under guidance of the Wisconsin DNR (August 2004-May 2008)
- . Spanish translator and mission worker on several overseas mission trips to Valencia, Spain; Hermosillo, Saltillo, and Juarez, Mexico; and Toronto, Canada (2001-2007)

PUBLICATIONS

Journal Articles

- . Kritzberger CJ, Antiel RM, Wallace DP, **Zacharias JD**, Brands CK, Fischer PR, Harbeck-Weber C. "Functional Disability in Adolescents with Orthostatic Intolerance and Chronic Pain." *Journal of Child Neurology*. Feb 2011; 26(5):593-8.

RESEARCH & FELLOWSHIPS

- . Life Sciences Summer Undergraduate Research Program (2011); National Institutes of Health, University of Minnesota-Twin Cities, Department of Laboratory Medicine and Pathology; Research involving immune response of T cells in mice.
- . Summer Undergraduate Research Fellowship (2009); Mayo Clinic College of Medicine, Department of Pediatric and Adolescent Medicine; Research with Dr. Philip Fischer studying variable predictors for functional disability of adolescents affected with Postural Orthostatic Tachycardia Syndrome.

CONFERENCE PRESENTATIONS

- . Associate Colleges of the Chicago Area. Student Symposium. Oral presentation. "Memory CD8+ T Cell Subsets Characterized by CD27 and CD43 Cell Surface Markers." Elmhurst, IL; April 14th, 2012

INTERESTS

- . Rock climbing, guitar, piano, illustration, photography, exploring the new, and merging opposites like art and science