

EFRA AHSAN

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EDUCATION

University of Washington, Seattle WA

Sept 2020 - June 2023

Bachelor of Science, Informatics

Honors: iSchool Capstone Research Award 2023, Annual Dean's List 2022 - 2023

SKILLSET

Programming Languages: Python, JavaScript (ES6+), CSS (CSS3), HTML (HTML5), R, SQL/SQLite

Libraries/Frameworks: Git, React.JS, Node.JS, Bootstrap, Firebase, Pandas, NumPy, Statsmodels

Tools: GitHub, NPM, Jupyter Notebook, Microsoft Azure SQL, VSCode, Figma, Photoshop, Canva, RStudio

Classes: Software Architecture, Data Structures & Algorithms, Database Systems, Web Programming, & Innovation Strategy

PROFESSIONAL EXPERIENCE

Self-Employed – *Freelance Web Developer & Digital Designer* – May 2023 - Jan 2024

Small-to-medium scale services for front-end web development, UX/UI prototyping, and printed graphic design.

- Converted visual designs into responsive customer-facing websites, using React and external libraries to build dynamic cross-platform features.
- Developed functional and scalable design solutions for mobile and website mockups, with close attention to detail in aligning brand identity, vision, and goals.
- Used graphic design softwares and imported graphics for high-resolution component vector material.
- Provisioned roadmaps from concept to delivery with support of iterative product revisions and enhancements.
- Provided recommendations for optimized front-end behavior and usability as to product niche.
- Resolved technical issues with source files, server issues, web service technologies, and version conflicts.

Quasistatics, Inc. – *Marketing Contractor* – April 2022 - June 2022

Liaised 10XR, an e-commerce wearable technology start-up, with potential buyers in King County to build a client list. Main use of headset is to utilize computer vision to act as a smart assistant to warehouse workers.

- Developed phone and email pitches to advertise the product and schedule live product demonstrations.
- Professionally answered questions regarding sale and technical information of the software technology.
- Drafted product evaluation report listing buyer concerns and user feedback collected from demos.

PROGRAMMING EXPERIENCE

Shades Beta – *SWE Hackathon* – April 2024

High-fidelity prototyping of user-centered functionalities for a multimedia beta application.

- Created high-quality mockups to effectively communicate novel product concepts and user flows.
- Explored creating impactful design solutions that sustained backend feasibility.

GardenSpace – *Senior Capstone* – Jan - June 2023 – <https://github.com/efra-tech/icapstone>

Open-source data and web project for connecting Seattle individuals to their local urban gardening communities.

- Made user-validated web front-end using React, with cross compatible features and JSON data transition.
- Led structuring and debugging of programs, and outpaced peers by 17K+ more lines of code contribution.
- Conducted user research, usability testing, and data analyses using R to inform design decisions.
- 2023 Capstone Research Award winning project from University of Washington Information School.

OurFamily – *Web Project* – Jan - March 2023 – <https://github.com/info340b-wi23/project-efra-tech>

Course project app with full-stack cookbook, photo archive, and calendar features made for connecting families online.

- Architected cloud-based data infrastructure via Firebase to enable user data requests to server-side.
- Used CSS and React state objects for front-end styling, heading the code contributions at 22K+ lines of code.

Synaptech @ UW – *Website Development Team* – Sept 2021 - May 2023 – <https://synaptechuw.org>

Co-Leader of the undergraduate neurotechnology organization website development team.

- Co-directed the programming and design teams over the initial two lifecycles.
- Translated project goals into workflows for constructing brand book and code prototypes.
- Mentored onboarding members and conducted quality reviews for ensuring design consistency.
- Integrated and tested NVDA web accessibility.