

# EFRA AHSAN

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## EDUCATION

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**University of Washington, Seattle WA**

Sept 2020 - June 2023

Bachelor of Science, Informatics

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

## SKILLSET

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

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

**Tools:** GitHub, NPM, Jupyter Notebook, RStudio, VSCode, Figma, Adobe Photoshop/Lightroom, Canva, Vector Libraries

**Classes:** Software Architecture, Client-Side Development, Web Programming, Database Systems, Advanced Data Science Methods, Intermediate Data Programming, Information Architecture, & Leadership Development

## PROFESSIONAL EXPERIENCE

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

Produced products for clients with front-end development, UX/UI design, and printed graphic design needs.

- Developed functional websites with interactive and mobile-responsive components using React and Bootstrap, with integration of various parts by external component and vector libraries.
- Created high-fidelity mockups of mobile and website UX/UI prototypes using Figma, Canva, and vector libraries, with close attention in executing the brand identity, vision, and goals.
- Delivered full product pipelines that supported iterative revisions and enhancements.
- Provided recommendations for source file functionality, usability, and aesthetics as to product niche.
- Created customized graphic design with high-resolution material for prime-quality printing.
- Gave technical support with managing web technology and web services as per needed.

**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 technical information of the software technology.
- Drafted a product evaluation report listing buyer concerns and user feedback collected from demos.

## PROGRAMMING EXPERIENCE

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

An open-source web project for connecting individuals to their local urban gardening communities in Seattle.

- Managed the structuring, modifying, and debugging of the code to consistently meet the design pipeline.
- Supported peers with troubleshooting code and version conflicts on their personal servers.
- Implemented the majority of web components using React, and used external libraries for embedding pre-built map and calendar features, onto which seamlessly integrated project data via JSON files.
- Played a key role in the website development process by boosting interactivity across all site pages, as with buttons and hover effects, which increased user engagement and enhanced website functionality.
- 2023 Capstone Research Award winning project from University of Washington Information School.

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

A course project app for digitally building family archives and a shared calendar to connect families online.

- Installed a cloud-storage database via Firebase, and prompted real time site rendering to process data.
- Implemented the majority of front-end web components using React, with use of React state objects.
- Styled the page responsiveness and UI aesthetics using CSS and object-notation styling.
- Allocated tasks and resources to the team to meet project requirements and deadlines.

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

Co-leader of the website development process for the on-campus undergraduate neurotechnology organization.

- Directed the web programming and design teams over two lifecycles of the website.
- Taught onboarding members how to use web technologies such as GitHub, Figma, and Jupyter Notebook.
- Successfully integrated web accessibility into siteware, and tested against NVDA screenreaders.
- Entered club as a python programmer on project SmartMusic, where involved with collecting and storing user brainwave data from a research-grade headband, with which to interpret user enjoyment of music.