

# 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: iSchool 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**

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

- Developed websites with fully functional, interactive, and mobile-responsive components using React and Bootstrap, with integration of various parts by external component and vector libraries.
- Created high-fidelity UX/UI mockups of mobile and website screens using Figma, Canva, and vector libraries, with attention to executing the brand identity and goals.
- Delivered a custom product pipeline that supported iterative revisions and enhancements.
- Provided recommendations for the usability and aesthetic appeal as to product niche.
- Created customized graphic design with high-resolution material for prime-quality printing.
- Administered business operations and provided technical support for technology and web service needs.

**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>**

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

- Managed the structuring, modifying, and debugging of code to consistently meet going design pipeline.
- Supported peers with troubleshooting code and version conflicts on their personal servers.
- Implemented user-validated web components using React, with use of external libraries for pre-constructed map and calendar features, onto both which integrated project data via JSON.
- Playing a key role in the website development process by boosting interactivity across all site pages, as with button and hover effects, which increased user engagement in executed user validation trials.
- 2023 Capstone Research Award winning project from University of Washington Information School.

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

Course project app with a digital cookbook and photo archive, and shared calendar, to connect families online.

- Installed a cloud-storage database via Firebase, and prompted real time site rendering to process data.
- Implemented majority of the front-end web components, with integrated 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 the initial 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.
- Joined club as python programmer for project SmartMusic, learning pandas by storing user data from a brainwave headband, from which to write binary classification of user's enjoyment to a music segment.