EFRA AHSAN

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EDUCATION

University of Washington, *Seattle WA*   *Sept 2020 - June 2023*
Bachelor of Science, Informatics
<u>Honors</u>**:** Capstone Research Award 2023, Annual Dean's List 2022 - 2023

SKILLSET

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, Photoshop/Lightroom, Vector Libraries (SVGs, images)
Classes: Software Architecture, Client-Side Development, Web Programming, Database Systems, Advanced Data Science Methods, Intermediate Data Programming, Information Architecture, & Leadership Development

PROFESSIONAL EXPERIENCE

Self-Employed **–** *Freelance Web Developer & Digital Designer* **–** *May 2023 - Jan 2024*
Delivered constructive services to clients for front-end development, UX/UI design, and printed graphic design.
- Developed fully functional, mobile-responsive, and interactive front-end websites using React, Bootstrap, and various component libraries.
- Created high fidelity, targeted mockups of UX/UI designs for mobile and website screens using Figma, Canva, and vector libraries; as well as custom graphic designs for high-quality printing.
- Provided personal recommendations for project functionality, usability, and aesthetics.
- Supported iterative revisions of the final product to ensure meeting customer satisfaction.
- **Primary Clients:** Veeve Inc., YouFeed.io, atlas. (student start-up), MexiKhaana (food cart)

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

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.
- Directed the structuring, refactoring, and debugging of the code to consistently meet the design pipeline.
- Supported peers with troubleshooting code and version conflicts on their personal servers.
- Played a key role in the website development process by boosting interactivity across all site pages, such as with buttons and hover effects, which increased user engagement as tested with user validation trials.
- Implemented the majority of the JavaScript code, using external libraries for embedding interactive calendar and map features, and using Bootstrap for smooth navigation and form function.
- 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 UX aesthetics using CSS and object-notation styling.
- Delegated tasks and resources to the team to meet project requirements and deadlines.

Synaptech @ UW **–** *Website Development Team* **–** *March 2022 - 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 this club as a python programmer, on project SmartMusic, where involved with collecting and storing realtime brainwave data from a user listening to music, from which interpreted enjoyment.