EFRA AHSAN

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EDUCATION

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

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

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, targeted mockups of mobile and website UI prototypes using Figma, Canva, and vector libraries, and collaborated closely to execute brand identity, vision, and goals.
- Tailored and delivered a full product pipeline 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 technologies and deploying source files via web hosting plans.

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, modifying, 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 and used external libraries for embedding interactive calendar and map features, feasing the project to exceed design limitations of the initial prototype.
- 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* – *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 club as a python programmer on project SmartMusic, where involved with collecting and storing user brainwave data from a research-grade headband, with which interpreted user enjoyment of music.