Varun Narayanswamy

Design Engineer/Software Engineer

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(720)-490-2346 |. Seattle, WA

PROFESSION EXPERIENCE

I am a software engineer and designer with over three years of experience as a full-stack engineer. I hold a Master's degree in Human-Computer Interaction and Design from the University of Washington. I am passionate about working on user-facing technology that increase functionality, accessibility, and delight.

WORK EXPERIENCE

Lab Researcher
University of Washington: Make4All Lab | March 2024 – August 2024
- Advised by Jennifer Mankoff
- Researched and prototyped an educational app using Figma and data visualization development that uses student data to identify habits affecting GPA and suggests improvements. Conducted qualitative research study to better understand the application value and potential concerns.

Software Engineer Contractor
VitalsMatter | March 2023 – August 2023
- Developed backend architecture with MySQL authentication, designed web interfaces in Figma, and researched health-tracking wearables to future-proof a mobile application for at-risk populations.

Software Engineer II
Seagate Technology | May 2019 – September 2022
- Fullstack development (Vue.js, HTML, CSS, JavaScript) for data management and security. Built out user facing features, designed MongoDB database integrations and helped lead the team in developing the Selenium test framework and communication with cloud storage containers.

SELECTED PROJECTS

Visualizing Wellness
Visualization of the GLOBEM Dataset
- Parsed 6 years of UW student mental health, physical states and activity data. Developed visualization using Vegalite that assist in gleaning actionable insights.

Project Tightrope
Interactive Education Experience Regard the Physical/Mental Experience of Anxiety
- Designed and developed Multiplayer walk-up-and-play style videogame. Players either use a balancing board and rod to dodge/collect negative and positive orbs, or wing controllers to move orbs towards player one. Led software and hardware code development and contributed to ideation and refinement.

HeartbeatChecker
iOS Mobile Application for easy and Accessible Heartbeat Checking
- iOS Mobile app that uses photoplethysmography, the Swift AVFoundations video recording, and iPhone flashlight to check the heart rate.

EDUCATION

University of Washington
Master's in Human Computer Interaction + Design
- Class of 2024 | Seattle, WA

University of Colorado, Boulder
Bachelor's in Creative Technology + Design
- Class of 2020 | Boulder, CO
- **Minors**: Applied Math, Computer Science

SKILLS AND EXPERTISE

Software Development:
- **Languages:** JavaScript, Typescript, Vue.js, Python, Swift, HTML, CSS, D3, MakeCode, C++, React
- **Software and Tools**: S3, Kubernetes, Jenkins, OAuth 2.0, MySQL, node, gRPC

Prototyping and Design:
- **Digital:** Figma, InDesign, Photoshop, Logic, CapCut, iMovie
- **Physical:** Adafruit CPX, laser cutting, 3D Printing, Circuitry, Soldering, Rhinoceros

User Research:
- Usability Testing, Semi-structured Interview, Contextual Inquiry, Affinity Mapping, Thematic Analysis

HONORS & ACTIVITIES

Boy Scouts of America
Troup 78 Boulder, CO