

Varun Narayanswamy

Fullstack Engineer

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(720)-490-2346 | Boulder, CO

PROFESSIONAL SUMMARY

I am a Software Engineer 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

Research Assistant

Paul G. Allen School of Computer Science | March '24 – August '24

- Make4All Lab – Advised by Jennifer Mankoff
- Designed student-focused platform prototype using Figma and visualization development to improve GPA by habit tracking and actionable suggestions.
- Conducted qualitative research study to understand the application value and potential concerns.

Software Engineer Contractor

Vitals Matter | 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 | August 2020 – September 2022

- Led fullstack development using Vue.js, HTML, CSS, JavaScript, Typescript, and Node.js for data management/security.
- Enhanced frontend features to improve user efficiency, restructured microservice backend to double cloud efficiency, and integrated MongoDB for optimized data storage.
- Co-developed Selenium test framework with 100+ tests, fixing hundreds of bugs pre-production and ensuring robust deployment.

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 assisted in gleaning actionable insights.

Project Tightrope

Interactive Education Experience Regard the Physical/Mental Experience of Anxiety

- Designed/developed Multiplayer walk-up-and-play style videogame. Players use a balancing board controller and rod to dodge/collect negative and positive orbs, or wing controllers to move orbs towards player one.
- Led software and hardware development and contributed to ideation, testing, 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

MS in Human Computer Interaction + Design

- Class of 2024 | Seattle, WA
- **GPA:** 3.91

University of Colorado, Boulder

BS in Creative Technology + Design

- Class of 2020 | Boulder, CO
- **Minors:** Applied Math, Computer Science
- **GPA:** 3.68

SKILLS AND EXPERTISE

Software Development:

- **Languages:**
JavaScript, Typescript, Vue.js, Python, Swift, HTML, CSS, Node.js, MakeCode, React.js, Vegalite,
- **Software and Tools:**
GitHub, Gitlab, GitHub Pages, Postman, Docker, Google Cloud, S3, Kubernetes, Jenkins, OAuth 2.0, MySQL, gRPC, MongoDB
- **Skills:**
Data Visualization, Frontend Dev, API Route Dev, Frontend Testing, UI/UX Principles

Prototyping and Design:

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

User Research:

- Usability Testing, Contextual Inquiry, Affinity Mapping, Thematic Analysis

HONORS & ACTIVITIES

Boy Scouts of America

Troup 78 Boulder, CO