Pirouz Mehmandoost

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Summary

Driven engineer with a background in software engineering and product design. Specialized in front end development with experience in software QA.

Technical Skills

- ***Software:*** JavaScript, TypeScript, React, React Native, Redux, Hooks, Java, C++, HTML, CSS, Git
- ***Platforms:*** Github, Gitlab, Confluence, Jira, Figma, Postman

Professional Experience

Freelance Product Designer, **Oakland, CA, 11/2023 - 03/2024**

Commission: Conceptual fashion accessory design

- Designed a sculptural harness-like accessory to embellish client's footwear.
- Developed a low-profile, TPE-based lock for harness to reduce friction across footwear and tolerate torsion during use.
- Designed 3D models of harness with locks embedded in order to produce a single seamless object.
- Presented 3 visual concepts with material options, color ways, and 3D printed prototypes for review**.**
- Manufactured products in-house using Shore 85A PTE and a modified Prusa i3 MK3S+ FDM printer.

Project: Footwear design- platform heel with modifiable surface detail.

- Developed a footwear concept: high heel with interchangeable, non-load-bearing components allowing visual modification.
- Designed an embedded lock mechanism to automatically lock and manually unlock components to heel and front platform.
- Designed an outsole with embedded locks and registration system to securely attach surface detail components.
- 3D printed 3 variations of surface detail components as hollow, TPR-based skins that envelop all visible surfaces of the heel.
- Assessed use case for printable materials including TPU, TPE, ABS, PETG, Nylon, and PA12-GF30 Nylon-glass composite.
- Documented 6 months of testing for mechanical failure during use with no incidents involving lock system or surface details.

Footwear Design Intern, Dolls Kill, **Oakland, CA, 03/2023 - 11/2023**

- Designed prototype technical specs, instructions for design corrections, and design updates for factory vendors.
- Produced illustrations, technical diagrams, and line sheets using Adobe Illustrator, and retouched images using Photoshop.
- Assisted designers when selecting Pantone colors, textiles and hardware.
- Documented designer comments, correction notes for prototypes during model fittings.
- Organized textile and footwear libraries, physical repositories of footwear and outsoles.

Software Engineer, Altair Engineering, **Berkeley, CA, 08/2020 - 02/2022**

Project: React Native mobile application for an IoT software platform

- Developed user login feature and applied standards compliant to AuthNZ standards for React Native apps.
- Collaborated with product manager product designer to develop a UI for controlling IoT devices (sensors, lights, switches).
- Developed a "scenes" feature to save and apply dim and warmth settings to groups of lights.
- Developed a "schedules" feature to apply scene settings on a schedule.
- Developed a feature to detect and configure Bluetooth light switches (setting scenes, schedules, and group light controls).

Project: Web application for an IoT software platform

- Collaborated with the lead engineer to implement Hooks and Redux Slice for application state management.
- Developed a feature that enables viewing and toggling though floor maps and data overlays in multi-story buildings.
- Developed a page to visualize and tabulate hierarchical IoT network data. Enabled table filtering and breadcrumb navigation.

QA Software Engineer, Altair Engineering, **Berkeley, CA, 09/2019 -08/2020**

Project: QA test suite against new API

- Assessed use cases for leveraging the Postman API testing platform and developed a presentation to share insights.
- Documented team standards for writing JavaScript API tests, repository management, and usage of Postman.
- Developed a python-based CLI for launching test suites, reading results, and dispersing reports to Slack channels.

Graduate Student Assistant, Mills College, ***Oakland, CA, 08/2017 - 05/2019***

- Graded coursework for introductory and intermediate object-oriented programming classes using Java.
- Tutor for Discrete mathematics.

Computer Science Tutor, Ohlone College, ***Fremont, CA, 06/2016 - 05/2017***

- Conducted pair programming during class for 3 C++ based classes: introductory and intermediate OOP, and data Structures.
- Provided group and individual tutoring in computer science lab.

Education

Post-Baccalaureate (GPA 3.5)	*Computer Science*	*Mills College*	*Oakland, CA*	2017 - 2019
BA	*Art, Persian Studies*	*SFSU*	San Francisco, CA	2009 - 2013

Professional Certifications

- RYT-200 certified Yoga instructor with experience developing curricula, launching gym programs, and group instruction.