

Ali Unwala

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WORK EXPERIENCE

Health Startup: Senior Full Stack Software Engineer 2023 - 2024

- Designed and implemented a React website with authentication and user management for customers to book and schedule appointments.
- Technology: React, CSS, HTML, VSCode, Typescript, Node.js, Docker, React Hook Form, Zod, js-cookie, TanStack Query, React Query, Zustand, Express.js, Passport.js

IBM Design: Senior Full Stack Software Engineer 2020 - 2023

- **Press Releases:** [Forbes](#), [InfoQ](#), [betanews](#), [linux.com](#), [ZDNET](#), [VentureBeat](#) and [CSUN](#).
- Contributed to core development of [open source tools](#) that provide millions of users a way to debug the accessibility of their website.
- Direct impacts of my work led to 23% improvement in accessibility compliance year over year. Leading to 100's of millions in captured revenue by IBM products every year.
- [ibm.com/able](#): Implemented over 90% of the website frontend of using React deployed with Docker.
- [IBM Equal Access Accessibility Checker](#): Planned and created a dynamically drawing tool to visualize highlighted bugs on a webpage.
- Technology: React, Javascript, CSS, HTML, JSX, VSCode, Typescript, Node.js, Docker, Gatsby, and CouchDB, axios

IBM Research: Senior Full Stack Software Engineer 2018 - 2020

- Designed and developed an event driven architecture to check the accessibility on web pages.
- Technology: Javascript, CSS, HTML, VSCode, and Node.js

IBM Watson: Cognitive Robotics Technical Lead 2015 - 2018

- **Press Releases:** [The Guardian](#), [Washington Post](#), [The New Yorker](#), [bon appetit](#), [Fox News](#), [The Verge](#), [Ars Technica](#), [Fortune](#), [USA Today](#), [Time](#) and [additional publications](#)
- Led a team of 20 people all working toward building cognitive AI embodiments.
- Consulted and brainstormed with C-suites and VPs at over 10 Fortune 500 companies to explore strategic ways to add Watson AI and robotics into their products.
- [Robotic Concierge](#): Conceptualized, implemented, and deployed a robotic concierge to help Hilton customers navigate the hotel and the surrounding area using natural language.
- [Chef Watson Robot](#): Connected IBM Watson's Cooking AI to create an active kitchen assistant that explores ingredients with a cook creating dynamically generated recipes for them to cook.
- Technology: REST, Python, Matlab, Vim, Unix/Linux, CouchDB, ROS, PCL, OpenCV, Watson AI APIs, NAO Robot, Pepper Robot

University of Texas at Austin: Graduate Teaching Assistant 2014 - 2014

- Conducted lectures for CS 378 Autonomous Intelligent Robotics and taught the [segbot platform](#)
- Technology: Python, MATLAB, Vim, Unix/Linux, Robotics Operating System, Point Cloud Library, Open Computer Vision (OpenCV), Segbot Robot

Intel: Graduate Technical Intern 2011 - 2014

- Verified mobile processors (Atom, Celeron and Pentium) before they were sent for fabrication (pre-silicon)
- Technology: Java, C++, Assembly, C, Vim, Unix, TCL, Verilog, Perl, VHDL

EDUCATION

The University of Texas at Austin: Master of Science 2014
Electrical and Computer Engineering, Research Focus: Robotics and Artificial Intelligence, GPA 3.8

The University of Texas at Austin: Bachelor of Science 2012
Electrical and Computer Engineering, GPA 3.67

AWARDS

- Eagle Scout - Boy Scouts of America
- 1st place, University of Texas 445L Embedded Design
- 1st Place, University of Texas Senior Design Project
- University Honors - University of Texas at Austin