

Ali Unwala

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EDUCATION

The University of Texas at Austin: Master of Science

Electrical and Computer Engineering, Research Focus: Robotics and Artificial Intelligence, GPA 3.8

The University of Texas at Austin: Bachelor of Science

Electrical and Computer Engineering, GPA 3.67

WORK EXPERIENCE

Health Startup: Senior Full Stack Software Engineer

2023 - 2024

- Conducted user studies to architect and implement a 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

IBM Design: Senior Full Stack Software Engineer

2020 - 2023

- Collaborated with design and accessibility experts to contribute to a [suite of web tools](#) providing guidance to ~300k IBM employees on making products accessible to people with disabilities
- **Technology:** React, Javascript, CSS, HTML, JSX, VSCode, Typescript, Node.js, Docker, Gatsby, and CouchDB, axios
- **Related Projects (see below):** [ibm.com/able](#), [IBM Equal Access Accessibility Checker](#)

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

- Led a team focused on finding value for IBM at the crossroads of cognitive computing and robotics and grew this team from 2 people to 20 people all working toward building cognitive AI embodiments
- Consulted and implemented robotics and machine learning prototypes to create value in over 10 Fortune 500 companies
- **Technology:** REST, Python, Matlab, Vim, Unix/Linux, CouchDB, ROS, PCL, OpenCV, Watson AI APIs, NAO Robot, Pepper Robot
- **Related Projects (see below):** [Robotic Concierge - IBM Watson x Hilton](#), [IBM Project Intu](#), [IBM Chef Watson Robot](#)

University of Texas at Austin: Graduate Teaching Assistant

2014 - 2014

- Conducted lectures for CS 378 Autonomous Intelligent Robotics and taught students the Robot Operating System (ROS) on a [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

PROJECTS

[ibm.com/able](#): A site for IBMers building accessible products within the company

- Implemented over 90% of the front end (in 2022) with React & Node deployed with docker containers
- This project was featured in [Forbes](#), [InfoQ](#), [betanews](#), [linux.com](#), and [ZDNET](#).

[IBM Equal Access Accessibility Checker](#): A web extension that allows users to automatically check for accessibility issues on any websites they own

- Planned and implemented dynamically drawn visualizations that highlight accessibility bugs on a webpage.
- This project was featured in [VentureBeat](#) and [CSUN](#).

[Robotic Concierge - IBM Watson x Hilton](#): A robotic concierge to help Hilton customers navigate the hotel and the surrounding area using natural language.

- Consulted and built a robotic concierge using Watson APIs, natural language processing, and speech to text.
- This project was featured in [Fox News](#), [The Verge](#), [Ars Technica](#), [Fortune](#), [USA Today](#), [Time](#) and [additional publications](#).

[IBM Chef Watson Robot](#): An application that allows the robot to act as an active kitchen assistant that will explore ingredients with a user and then create a dynamically generated recipe for them to cook

- Collaborated with the Chef Watson team to bring Chef Watson to the NAO robotics platform
- This project was featured in [The Guardian](#), [Washington Post](#), [The New Yorker](#), and [bon appetit](#).

AWARDS

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