Diljot Singh Garcha

TECHNICAL EXPERIENCE

Software Engineer

02/2024 - Present

Shopify | Winnipeg, MB

Shopify is a Canadian e-commerce company that enables entrepreneurs to start or grow their business

- Developed back-end features driving merchant growth through incentives
- Enhanced user-facing pages to promote incentives
- Built and maintained unit/integration tests for reliability
- Contributed to code reviews with actionable feedback
- Regularly tested code to ensure optimal functionality and performance

Software Developer 2

01/2021 - 01/2024

D2L | Winnipeg, MB

D2L is a Canadian company specializing in E-Learning, creators of the Brightspace Learning Management System

- Designed and architected an event scheduling system to automatically adjust student grades in response to due dates using Amazon Web Services including Lambda, DynamoDB and SQS
- Maintaining back-end APIs written using C# and .NET
- Writing unit and integration tests to ensure complete test coverage of team-owned areas within the codebase
- Built a new learner focussed "New Tab Page" experience for Chromium-based browsers
- Created a prototype PDF document summarizer using Open AI

Undergraduate Researcher

Human-Robot Interaction Lab at University of Manitoba | Winnipeg, MB

Ambivalent Sexism Theory: Impact on HRI 05/2018 – 08/2018 Flexible Avatar Models for In-The-Wild Robots 05/2017 – 08/2017

- Developed interfaces to wizard various robots in Python and C#
- Conducted and coordinated HRI studies with over 90 participants

RECENT PROJECTS

Throne: Find, rate, and review washrooms 01/2020 – 04/2020 Group Project

- Led the back-end development team using Python and Flask
- Implemented a REST API using Amazon Web Services such as Lambda, Cognito and RDS
- Setup the continuous integration and deployment pipelines for the application using GitHub Actions
- Developed front-end features for the web and mobile applications using React and Swift

EDUCATION

Bachelor of Computer Science - Honours 09/2016 - 05/2021

University of Manitoba | Winnipeg, MB
• Cumulative GPA: 4.16 / 4.50

- Faculty of Science Undergraduate Research Award 2017 & 2018
- Dean's Honour List Fall 2016 to Summer 2019
- Minor in Philosophy

TECHNICAL SKILLS Languages

hello@diljot.dev

diljot.dev

linkedin.com/in/diljotsg github.com/diljotsg

- C#
- C/C++
- · Java, JavaScript & Python

Technologies

- Amazon Web Services (AWS)
- Flask & Serverless Dev (λ)
- · Node.js, React, LitElement
- · Ruby on Rails

PUBLICATIONS

2023 | Int J of Soc Robotics

Face to Face with a Sexist Robot: Investigating how women react to sexist robot behaviors

2019 | HRI '19

Infrasound for HRI: A Robot Using Low-Frequency Vibrations to Impact How People Perceive its Actions

2019 | HRI '19

Good Robot Design or Machiavellian? An in-the-wild robot leveraging minimal knowledge of passersby's culture

2018 | HAI '18

Subliminal Priming in Human-Agent Interaction: Can Agents Use Single-Frame Visuals in Video Feeds to Shape User Perceptions?

PROJECTS MCU Countdown API

Individual Project

- Simple web app to showcase the power of AWS Lambda
- · Received over 150 GitHub stars

Flair: Web Server

Individual Project

 Multi-threaded web server built with Python that supports GET and POST requests

Resume Creator

Group Project

 Winner of the Most Innovative Project Award at MLH Local Hack Day