

Aditya Goyal

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Education

Computer Science Specialist

September 2018 – June 2023

UNIVERSITY OF TORONTO (ST. GEORGE CAMPUS)

- Object Oriented Programming, Software Tools and Design, System Programming, Full Stack Web Development, Android/iOS App Development, Data Structures, Analysis and Designing of Algorithms, Multi-variable Calculus, Databases.

Work Experience

Edsembl

Toronto, Canada

WEB/QUALITY ASSURANCE AUTOMATION DEVELOPER

May 2021 – April 2022

- (Java, Selenium, TestNG) Reduced the main SAAS product's test time from days to under 5 minutes by creating a robust regression testing automation system.
- Expanded the product's usability across multiple web browsers and versions.
- Built the deployment pipeline using CI/CD to streamline code builds and make development cycles for team faster.
- Collaborated across different teams to maintain continuity and rigorous documentation.

Department of Computer Science (University of Toronto)

Toronto, Canada

WEB DEVELOPMENT RESEARCH ASSISTANT

Oct 2019 – Feb 2020

- (JavaScript-MERN Stack) Collaborated in a team of 4 to build a full stack web application for cheap international money transfer with the facility to be regulated by the government.
- Used SOLID object-oriented design, completed full documentation, assisted in implementing separate user interface alongside an Admin user side to manage the stored data.
- Constructed and managed the database to store users' and money transfer's info using MongoDB.
- Developed the dynamic front-end of the website using Vanilla CSS/SCSS, Bootstrap.

Projects

AI Marketplace App - Neighbourhood Hacks Winner!

MOBILE APP TO CONNECT LOCAL BUSINESSES AND CUSTOMERS

- Collaborated in a team of 4 to develop a marketplace to empower local businesses and connect them with customers, specially during Covid-19.
- In a sub-team of 2, devised an AI object detection algorithm powered by Google Cloud to aid object checkout and remove inevitable human contact.
- **Languages and Tools:** Python (Flask), JavaScript (ReactNative, NodeJS), SQL(NodeJS), Google Cloud.

Airbnb WebApp for Health Care Workers

WEB APP FOR HEALTHCARE WORKERS TO FIND HOUSING

- Developed a responsive, multiple-page full stack web app using the Python's framework Django for server-side rendering.
- Enhanced the front-end structure using JavaScript, HTML, MaterializeCSS and reduced the server-side load by dividing tasks with JavaScript.
- Used Model-View-Presenter Architecture to lay different app components and seasoned the project with comprehensive documentation.
- Tested using automation with the help of Unittest, Selenium and Travis-CI.
- **Languages and Tools:** Python(Django), MaterializeCSS, JavaScript, HTML, CSS/SCSS, Selenium, Travis-CI, SQL, Git.

Memory sharpener Android game

AN ANDROID GAME WITH 3 MINI GAMES TO INCREASE VISUAL MEMORY AND USER RESPONSE TIME

- Developed three structurally different games in Java using Android Studio and wrote XML scripts to design front end layouts.
- Implemented software design patterns such as Builder, Façade, Factory and Dependency Inversion and followed SOLID design principles to allow the app to be less coupled, flexible and be open to extensions and plugins.
- Created a database using Google Firebase and a login activity so that users can login and save their stats.
- Created UML diagrams to classify and refactor the code and used Git version control to efficiently collaborate with team members.
- **Languages and Tools:** Java, Android Studio, Google Firebase, UML, Git.

Group Messaging Platform

WEB APP WHERE MULTIPLE USERS CAN CREATE ACCOUNT AND MESSAGE OTHER USERS IN DIFFERENT CHANNELS.

- Developed and hosted a webapp where user's can have personal accounts with the feature of messaging others. Used Python's Flask framework to implement the rendering.
- Added structure to the website with JavaScript, HTML, SCSS/CSS and Bootstrap.
- Automatically tested features of the app using Selenium, Unittest and Travis-CI.
- **Languages and Tools:** Python(Flask), Vanilla JavaScript, CSS/SCSS, HTML, Bootstrap, Selenium, Travis-CI.

Skills

Programming Java, Python(Django, Flask), JavaScript(Mongo, Express, React, Node, Angular), C, SQL(PostgreSQL), HTML

Software Development Agile Dev., Software Design Patterns, Android Development, Full Stack Mobile/Web App Dev., OOP, MVC Design.

Tools Git, GitHub, Docker, Travis-CI, unittests, TDD-Selenium, GCP, Heroku, AWS, IDE, Latex, Linux Terminal.