# Ahmed Mandalawi

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## EDUCATION

**Honours in Bachelor of Science** (Computer Science and GIS)          **University of Toronto – 2022**

## QUALIFICATION

**Languages:** Java, Python, HTML5,6, CSS, JavaScript (ES6+), C, C++, Bash, MongoDB, GraphQL, JSON, XML, MySQL, R.

**Tools:** Git, GitHub, Jira, VScode, PyCharm, Eclipse, IntelliJ, Slack, MySQL, UML, Adobe Suites, Adobe XD, Figma, Prismic.

**Frameworks/Libraries:** NodeJS, ReactJS, VueJS, Redux, VueX, jQuery, Bootstrap, Vuetify, Styled Components, GatsbyJS, NextJS, NuxtJS, ExoressJS, SciPy, NumPy, Pandas.

## PROFESSIONAL EXPERIENCE

### GDSC (Google Developer Student Club)          Jan 2022– April 2022
**Stack Developer**

- Designed and developed user websites using React, Node JS, Express and Mongo DB. Provided up-to-date modern website designs with dark mode functionality.
- Worked in an agile team setting and saw the project from conception to finished product.
- Designed and developed APIs while meeting both technical and consumer needs.
- Completed multiple iterations and redesigned the entire site structure, navigation, and interactivity using Figma to accomplish website objectives
- Spent time arranging product backlog and setting estimates to ensure efficient sprints. Decided on efficiency and improvement for the code.
- Established standard process for code development and migration within development, staging, and production environments for a consistent methodology
- Set communication guidelines for sprint meetings to ensure code quality and receive mentoring from senior developers.
- Designed, developed, and implemented core features including a custom booking system, and an admin panel.
- Used a JWT-based authentication system for user accounts
- Designed and developed APIs while meeting both technical and consumer needs.
- Created CRC cards, schedules, system design, UML classes, GitHub readme, Jira backlog, and burndown charts for each sprint.
- Started sprints by updating product backlog and criteria of satisfaction for each task
- Ended sprints by updating our system design, UML classes, and GitHub readme

### City of Mississauga          Sept 2021– Feb 2022
**GIS Analyst**

- Worked closely with city mentors and team members to meet project goals, requirements, and desired timelines using Waterfall & Agile Methodology
- With less than 3% space within the city, the goal of the project was to find suitable spaces in the City of Mississauga that can be transformed into community gardens.
- Data manipulation and advanced mapping automation using model builder through python code (ArcPy)
- Used statistics, open-source data, and research to discover patterns and trends with the help of spatial mapping software to create a finalized recommended location that met the criteria for the city.
- Responsible for maintaining and testing web functionality. Updated code, content, and fixed bugs from support tickets via Microsoft Teams.

## PROJECTS

### Freelance Web Development          Sept 2019– Current

- Created various Personal and Freelance businesses operated websites using MERN Stack application from scratch. The goals of these projects were to attain further knowledge on how to use frameworks and concepts such as React, Express, React hooks, Routes, Authentication, and MongoDB database. Developed, tested, and maintained several web and desktop-based business applications.
- Used a JWT-based authentication system for user accounts.
- Utilized React Hooks to manage States and Props.
- Increased code efficiency by utilizing reusable Components.
- Replicated GDSC-like interface- created user profiles, following and follower system, create/delete posts, like and comment on posts.

**\*Feel free to view the extended resume on my website\***