

# Mohanad Mazin

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## PROFESSIONAL SUMMARY

- Results-driven Software Developer with a strong foundation in full-stack development and a background in chemistry. Proficient in designing and deploying scalable applications, optimizing performance, and leveraging data-driven insights to enhance user experience. Demonstrated ability to lead projects from conception to deployment, with a keen eye for detail and a commitment to continuous learning.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript (ES6+), SQL, HTML/CSS, G-Code

**Frameworks & Libraries:** React, Flask, Electron, Material-UI, Bootstrap, RxJS, Recoil

**Dev Tools:** Docker, Git, Firebase, VS Code, Jest, Linux, Webpack

**Data/ML:** NumPy, pandas, scikit-learn, OpenCV

## EXPERIENCE

### Software Developer

May 2022 – Present

*Skatescribe, Markham, ON*

- Spearheaded development of a full-stack activity tracking app (React + Flask + PostgreSQL + Docker) that increased customer retention by 25%.
- Built a service that aggregates and visualizes real-time KPIs, enabling the operations team to make decisions 20% faster.
- Refactored legacy Electron app, reducing memory usage by 30% and improving render times by 50%.
- Enhanced Keyence Scanner processing speed by 35% through advanced mathematical techniques, including Bezier curve approximations and B-splines, utilizing scikit-learn, pandas, and NumPy.
- Mentored junior developers/interns on front-end best practices, Git workflows, and component reusability.

### R&D Chemist

Apr. 2021 – May 2022

*Quest Inks and Coatings, Mississauga, ON*

- Achieved a 20% reduction in the cost of popular ink products by identifying and developing alternative solutions through extensive research and development.
- Automated quality control data workflows using Python and Excel macros, reducing analysis time by 50%.
- Developed and implemented improved quality control methods, ensuring higher standards.
- Led cross-functional trials and mentored two junior lab technicians during onboarding.

### Front End Developer

Apr. 2020 – Apr. 2021

*Whileloop Inc., Toronto, ON*

- Delivered 10+ high-performance UI components with ReactJS, enhancing platform responsiveness.
- Integrated Firebase for real-time backend syncing; implemented testing with Jest for 95% code coverage.
- Collaborated closely with designers to ensure pixel-perfect, mobile-first interfaces.

## EDUCATION

### York University

Toronto, ON

*Bachelor of Science in Analytical Chemistry*

*Aug. 2017 – May 2021*

## PROJECTS

### Dog Breed Detection | Python, JavaScript, Roboflow, YOLOv8

- Built an image classification web app allowing users to detect dog breeds via drag-and-drop uploads.
- Fine-tuned YOLOv8 model to achieve 87% mAP on a custom dog breed dataset.
- Built and deployed the app using HTML, CSS, and JavaScript.

### Opposing View Extension | JavaScript, Chrome API, OpenAI API, HTML/CSS

- Developed a Chrome extension that allows users to highlight any online text and instantly receive a well-articulated opposing viewpoint, promoting critical thinking and balanced understanding.
- Integrated OpenAI's GPT API to generate context-aware counterarguments tailored to the selected content.
- Built intuitive popup UI and content script injection using the Chrome Extensions API, HTML/CSS, and vanilla JavaScript.