Janel Gilani

LinkedIn: linkedin.com/in/janelgilani
Github: github.com/JanelGilani

Website: janelgilani.com
Email: janel.gilani@mail.utoronto.ca
Mobile: +1 (437) 985-765

EDUCATION

University of Toronto - St. George Campus — Toronto, Canada
HBSc - Computer Science Specialist & Statistics Minor; cGPA: 3.96/4.0 — *September 2021 - June 2025*

Highlights: Arts and Science Internship Program (PEY/Co-op); 3x Dean's List Scholar; UofT International Scholar

Relevant Coursework: Software Engineering, Deep Learning, Data Structures & Algorithms, Web Programming, Databases, Computer Networks, Computer Vision, Operating Systems, Probability, Statistics & Data Analysis

SKILLS SUMMARY

- **Languages:** Python, JavaScript/TypeScript, Java, C/C++, SQL, R, Go, HTML, CSS, Bash, Assembly
- **Frameworks:** Django, React, PyTorch, TensorFlow, Spring Boot, Angular, Next.js, scikit, NumPy, OpenCV, Node.js
- **Tools:** Git, Docker, Postman, Jira/Confluence, MongoDB, PostgreSQL, Selenium, Heroku, AWS, GCP

WORK EXPERIENCE

Google DeepMind — Montreal, Canada
Research Engineer (Internship) — *June 2025 - August 2025*

- Implementing a novel framework using **social choice theory** to identify and flag problematic prompts within large-scale academic datasets by analyzing ordinal performance signals from various **large language models**.

Noah's Ark Lab - Huawei Technologies — Toronto, Canada
Machine Learning Engineer (Co-op) — *May 2024 - December 2024*

- Trained a custom **U-Net** on ImageNet using **PyTorch** and built a full-stack proof-of-concept (USPTO patented) using **Next.js** to diagnose user's eye prescription with 80% success rate through psychological experiments.
- Enhanced the **3D Gaussian Splatting** novel-view synthesis pipeline by incorporating Gaussian decomposition heuristics to achieve artefact-free real-time **object deletion and inpainting** with over 95% precision.
- Streamlined pipeline deployment using **Docker** to improve scalability, cutting image size from 131GB to 21GB.

Urban Data Research Centre, University of Toronto — Toronto, Canada
Software Engineer (Part-time) — *September 2023 - April 2024*

- Engineered a Named Entity Recognition system using **NLTK**, taxonomies, and **graph traversal** algorithms to extract and classify Common Impact Data Standard elements from unstructured text, achieving 91% accuracy.
- Authored an academia-standard research report documenting related work, background, experimental results, next steps, and processed testing data for hyper-parameter tuning with **scikit-learn's** Estimator API.

Royal Bank of Canada — Toronto, Canada
Full-Stack Developer (Co-op) — *May 2023 - August 2023*

- Designed and maintained cloud-based micro-service applications using **Spring Boot**, by creating RESTful web services and following test-driven development, ensuring high-quality code in an **agile** environment.
- Collaborated with 3 engineers to revamp RBC's MyAdvisor by restructuring the **relational database schema** and REST APIs, reducing dashboard data retrieval time by 20% for over 300,000 clients who have multiple plans.
- Upgraded front-end functionality for beneficiary management by building responsive web pages using **Angular** and following **Figma** design specs, addressing friction points and reducing average UX clicks by 16%.

PROJECTS

PetPal: Connecting pets with adopters — GitHub Link
Tech: Django, React, Postman, Heroku, SQLite — *April 2024*

- Led a team of 4 programmers to develop a full-stack web application connecting pets in need of adoption with potential adopters, following industry-level SDLC and organizing backend logic using **UML** diagrams.
- Developed **Django** APIs and a multiplatform frontend with **ReactJS** in MVC architectural pattern, and strengthened the **CI/CD** pipeline by achieving 80% test coverage through extensive unit testing via **Postman**.

BudgetBites: Find budget-friendly food options at UofT — GitHub Link
Tech: Java, MongoDB, Swing, Git — *April 2023*

- Devised a CRUD application alongside 6 programmers to adhere **Java** backend to Clean Architecture & SOLID design principles while utilizing **MongoDB** for data persistence and designing an aesthetic GUI using **Swing**.

EXTRACURRICULAR AND LEADERSHIP EXPERIENCE

- Winner at the **RBC Tech Case Competition**
- Python **Coding Instructor** at AiGoLearning
- Outreach Associate at the **UofT AI Group**
- **CSSU Orientation** 2023/24 Leader