

Liv Elliott

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EDUCATION

Bachelor of Computing (Honours)

Sep 2020 - Apr 2025

Queen's University, Kingston, ON

- cGPA: 4.0
- Specializing in **Software Design** with **Co-Op** program
- Scholarships and Awards: Principal's Scholarship (2020), Dean's Honour List (2021 - 2023)
- Relevant Courses: Data Structures, Algorithms, Software Quality Assurance, Artificial Intelligence, Design Thinking

TECHNICAL SKILLS

- Programming Languages: Python, Java, Ruby, JavaScript
- Frameworks & Tools: Appium, Django, Figma, Git, HTML/CSS, Jira, PostgreSQL, ReactJS, Selenium

RELEVANT EXPERIENCE

Undergraduate Teaching Assistant

Sep 2021 - Present

Queen's University, Kingston, ON

- Courses: Creative Computing (Python), Intro to CS II (Java), Logic for CS (Python), Game Design (C# & Unity)
- Facilitated problem-solving sessions for over **200 students**, breaking down complex topics to improve understanding
- Evaluated assessments and provided detailed feedback to help students strengthen their skills

Software Developer Intern

May 2023 - Apr 2024

Bell Canada, Ottawa, ON

- Utilized **New Relic's** performance monitoring API with **Python** to analyze big data from Bell's TV streaming service, helping identify and resolve app issues affecting over **1.7 million** subscribers
- Designed and developed a test suite scheduler in **Ruby** to support cross-device interactions, improving scalability and increasing **test coverage by 25%**
- Offset manual team workload by **80% in 6 months** by developing **50 test scripts** with **Appium** and **Ruby Minitest**

PROJECTS

Social Collaboration App - github.com/livelliott/swell

Oct 2023 - Jan 2024

- Architected and developed a **REST API** with **Python**, **Django**, and **JavaScript** to facilitate seamless communication between the frontend and backend, enabling real-time data exchange and improving system responsiveness
- Integrated **PostgreSQL** with a robust database management system, enhancing scalability to support 50+ users
- **Decreased 80%** of manual labour for users by implementing asynchronous messaging with **Celery Scheduler** and **Redis** to automate the email dispatch process

Airbnb Backend Clone

Sep 2022 - Dec 2022

- Emulated Airbnb's rental system with **Python**, **Flask**, and **SQLAlchemy**, ensuring efficient data flow between components while passing over **20 integration tests** to verify interactions between the frontend and backend
- Implemented automated testing workflows using **Pytest** integrated with **GitHub Actions** within a **CI/CD** pipeline, enhancing code quality and streamlining the development process

AI Chatbot - github.com/livelliott/mot-AI-ve

Nov 2022

- Developed an **AI** chatbot with **Python** and **Flask**, leveraging an **NLP API** and **prompt engineering** to craft natural, context-aware responses for users, improving conversational accuracy, and enhancing user engagement
- Collaborated with a team of 3 to build a dynamic web application, using **Figma** for prototyping and **ReactJS** for functionality during [Hack Western](#), a 36-hour hackathon