

# Gurnoor Loe

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## EDUCATION

### York University

Bachelor in Information Technology

Toronto, Ontario

June 2027

- **Relevant Courses:** Object Oriented Programming (Java), Data Structures and Algorithms (Java)

Fast-learning and adaptable developer with a solid foundation in software development and testing. Delivering impactful solutions through strong collaboration, continuous learning, and a passion for improving user experiences. Have a problem-solving mindset, a focus on process optimization, and a commitment to values like trust, teamwork, and accountability.

## EXPERIENCE

### Software Developer Intern

Vosyn

Jan. 2025 – April 2025

Etobicoke, Ontario

- Developed MVP for an AI multimodal voice synthesis, using **JavaScript** and **Python**. Collaborating with **80+** members
- Implemented **security** measures which strengthened security by **90%**.
- **Led a team of 7 interns**, scaling it by **200%** in 4 months and delivered production-ready features
- Optimized **GCP storage** configurations to reduce cloud data retrieval latency by **30%**
- Containerized applications with **Docker** and enhanced **CI/CD** pipelines, reducing deployment errors by **25%**
- Built scalable backend infrastructure with **FastAPI**, **Flask**, **Django**, and **WebSockets** to support **high-concurrency traffic**
- Resolved complex **Git** version control issues, improving collaboration and **reducing** dev cycle delays.
- Technical requirements: Python, Django, JavaScript, React, SQL, MongoDB, Flask, Redis, Git, GCP, Docker, WebSockets, FastAPI

## PROJECTS

### AI Video Maker | *React.js, NextJs, Gen AI, GCP, PostgreSQL, Javascript, Jest, RESTful API, HTML, TailwindCSS, Docker*

- Built an **full-stack** AI video generation tool that uses a **Large Language Model (LLM)** to convert user prompts into dynamic video scripts, voiceovers and **GCP** to allow for downloading.
- Application helped grow the YouTube shorts channel to **10000+ views** in 2 months.
- Engineered a full-stack pipeline with **React**, integrating LLMs, **text-to-speech (TTS)**, and automated scene rendering to deliver production-ready short videos in under **60 seconds**.

### Tennis Analyzer | *Python, Pytorch, YoloV8, Pandas, Numpy, CV2, Machine Learning, Deep Learning, Data Visualization, Data Modeling*

- Built a Tennis Tracker using **YOLOv8** and **PyTorch**, training the model on **500+ images** to accurately detect and track ball and player movement.
- Fine-tuned **YOLO** using Ultralytics to improve object detection in videos, optimizing model performance with hyperparameter tuning.
- Developed a **Convolutional Neural Network (CNN)** with **PyTorch** to predict and extract keypoints to enable player analysis.

### Spring boot image upload | *Java, SpringBoot, Reactjs, JavaScript, AWS S3, CSS, HTML*

- Developed a user profile service using **Java Spring Boot**, enabling users to upload profile pictures, which were securely stored in an **AWS S3 bucket**, achieving **100%** uptime for image retrieval and storage.

### MarketRealm | *React.js, Node.js, Express.js, Clerkauth, MongoDB, Tailwind, Typescript, HTML*

- Architected and deployed a **full stack** responsive website application for buying and selling products, adhering to the **Software Development Life Cycle (SDLC)**.

## TECHNICAL SKILLS

**Languages:** JavaScript, Python, Java, SQL (Postgres and MySQL), HTML/CSS, TypeScript

**Frameworks:** React, Node.js, Django, Pytorch, Flask, Spring boot, JUnit, Material-UI, FastAPI, Next.js, Tailwind, Bootstrap, Pandas, JQuery, RESTful APIs, numpy, Excel, MS Word

**Developer Tools:** Linux (Ubuntu), Bash, Git, GenAI, AWS, MongoDB, Docker, Google Cloud Platform (GCP), VS Code, IntelliJ, Eclipse, WebSockets, Windows, Jira, Notion, Confluence