Gal Cesana

Software Engineer

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Location
Jerusalem / Tel Aviv

LinkedIn
Say hello

Projects

As a Computer Science student, I successfully handed off projects demonstrating solid programming skills and problem-solving abilities.

Intern-sheep.com (JavaScript + Python + Gemini API)
Developed a web tool that tailors resumes to specific job descriptions using Google's Gemini API. Built with Flask, Docker, LaTeX, and deployed on Google Cloud Platform, the project demonstrates practical use of generative AI to solve real-world job application challenges. - View the project

Compiler (Python)
A compiler that converts the high-level Jack language into binary code using a pre-built assembler and VM translator.

ImDb Review Classifier (Python)
Developed a neural network that classifies 50,000 written reviews as positive or negative based on score matching.

Education

CS / The Hebrew University of Jerusalem

Oct 2022 — Present

- Gained hands-on experience in key computer science disciplines, including data structures, machine learning, operating systems, and programming fundamentals
- Applied concepts to real-world problems through rigorous coursework, reinforcing strong analytical and problem-solving skills.
- **Introduction to CS** (Grade: 88)
- **Machine Learning Methods** (Grade: 97)
- **Introduction to Machine Learning** (Grade: 88)
- **Operating Systems** (Grade: 87)
- **Computer Cons. Workshop - Nand** (Grade: 88)
- **Software Engineering** (Grade: 95)

Experience

Data Annotation for ML models / SAIPS, Tel Aviv

2021 — 2022

- Assisted in developing and refining data annotation tools to train neural networks for autonomous vehicle models.
- Applied Python scripting for data processing tasks and contributed to improving machine learning model performance.

HR Officer – Captain Rank / IDF, Israel

2018 — 2021

- Oversaw HR operation for a 500-member unit, managing personnel data and strategic planning.
- Led a team of 12, cultivating leadership and organizational skills applicable to project management.

About

Third-year Computer Science student at The Hebrew University of Jerusalem with a strong foundation in software engineering and AI. Passionate about building practical, scalable tech solutions and continuously learning cutting-edge tools and methodologies.

My passion for coding drives me to explore the latest advancements in technology, focusing on solving complex problems with modern programming methodologies.

Expertise

Data Structures: Arrays • Linked Lists (Singly/Doubly) • Stacks • Queues • Binary Search Trees (BST) • Hash Tables (Hash Maps) • Graphs (Adjacency List/Matrix)

Algorithms: Sorting • Searching • Dynamic Programming • Complexity Analysis • Backtracking Algorithms • Algorithm Design & Development

Machine Learning: Supervised Learning • Unsupervised Learning • Neural Networks (ANN, DNN, CNN, RNN, LSTM) • SVM • AUC-ROC • Gradient Boosting • Machine Learning Algorithms • Deep Reinforcement Learning • Computational Linguistics

Deep Learning: Generative Neural Networks (GANs, StyleGAN, DCGAN) • Neural Language Models • Image Processing • Machine Translation

Operating Systems: Process Management • Memory Management • Thread Synchronization • File Systems • IPC • Linux • Assembler

Software Development: Object-Oriented Programming (OOP) • Algorithm Development • Software Architecture & Design Patterns • Databases • Web Development • Automation

Programming Languages: Python • C • C++ • Java • JavaScript • C# • SQL • Assembly Language

Mathematics & Computational Theory: Probability & Statistics • Linear Algebra • Calculus • Discrete Mathematics • Combinatorics • Complexity Theory • Computational Complexity • Markov Models (Markov Chains, Decision Processes)

Frameworks & Tools: TensorFlow • PyTorch • Scikit-Learn • .NET Framework

Personal Skills: Facilitating Critique • Deep Thinking • Detail-Oriented • Flexible • Communicative • Building Connections