Christos-Grigorios Gkovaris

Final-year CSE Student | Software Engineering | Full-Stack Web Development

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Summary

I am a Computer Science and Engineering student with strong software development and robotics skills, experienced in full-stack development, machine learning, and ROS-based robotic simulations. I have assisted in electronics labs and volunteered as a Python instructor, developing both technical expertise and the ability to communicate complex concepts effectively. I am motivated to apply software engineering principles to large-scale scientific research and contribute to multidisciplinary teams.

Education

University of Ioannina — OCT 2021 - SEPT 2026
Computer Science and Engineering (MEng, 5-year Integrated Master Programme)

An intensive five-year integrated program delivering foundational engineering rigor alongside advanced specialization and master's-level research in computer science.
https://www.cse.uoi.gr/

Experience

University of Ioannina — FEB - JUN 2025 & FEB - JUN 2026
Laboratory Assistant at Electronics
Guided students in circuit design and troubleshooting using OrCAD, enabling 20+ students to successfully complete complex lab projects and improving lab workflow efficiency by reducing errors.

Skills

Robotics & Simulation
ROS, Gazebo, RViz, trajectory planning

Programming & Backend
Python (pandas, NumPy, Scikit-learn, PyTorch basics), Java (Spring Boot, REST APIs), JavaScript (jQuery, AJAX)

Tools & Technologies
Git & GitHub, Linux (Ubuntu), Windows, Zorin OS, VMWare Player 17/17 Pro, VS Code, Eclipse IDE, Visual Studio 2022, VHDL & OrCAD (academic exposure)

Frontend
HTML5, CSS3, JavaScript Responsive web applications

Databases
MySQL, SQLite, MariaDB

Projects

(Master Thesis Project) Smart Wishlist Prioritization Flow - Chrome Extension for Intent Based Search Ranking — FEB - SEPT 2026
(In progress . . .)

Neural Classification and Unsupervised Learning - Ground up implementation of supervised and unsupervised learning algorithms — OCT 2025 - JAN 2026
Developed a 3-layer Multi-Layer Perceptron (MLP) trained with backpropagation for supervised data classification, achieving accurate predictions on complex datasets. Implemented a K-Means clustering algorithm from scratch for unsupervised data analysis, engineering all underlying mathematical models and optimizing performance. Technologies: Java

SpringBoot Traineeship Management System - Web application for managing traineeships and internships — FEB - JUN 2025
Developed secure authentication and implemented instructor/trainee role separation, ensuring reliable access control and system security. Designed and optimized REST API endpoints for efficient data storage and retrieval, improving application responsiveness. Integrated data management logic following MVC architecture principles, enhancing maintainability and scalability of the web platform. Technologies: Java, Spring Boot, REST APIs, SQL

MLP Classifier for MNIST Digit Recognition - Python based neural network for handwritten number identification — OCT 2024 - JAN 2025
Implemented a Multi-Layer Perceptron classifier for accurate handwritten digit recognition, achieving high classification performance on the MNIST dataset. Engineered robust data preprocessing pipelines and optimized model hyperparameters for improved convergence and reliability. Evaluated results using confusion matrices and loss curves to ensure model accuracy and stability. Technologies: Python, Scikit-Learn, Pandas, Matplotlib

Treegram App Social Media Platform (Ruby on Rails) - Lightweight Instagram-inspired web application — OCT 2024 - JAN 2025
Implemented secure user authentication, photo uploads, and tagging, enabling a functional social media platform with controlled access. Developed a follow system to display posts from followed users in chronological order, enhancing user engagement. Built comment creation and deletion with user permissions, ensuring robust content management and interaction control. Technologies: Ruby on Rails, HAML, SQLite3, JavaScript/jQuery, AJAX

Jackal and RRbot Simulations - Real time robotic simulation and trajectory generation using ROS — FEB - JUN 2023
Developed motion planning and autonomous navigation for a differential drive robot and a 2-DOF robotic manipulator. Implemented trajectory generation using cubic polynomials and linear functions with parabolic blends in ROS, reducing simulated trajectory error by 15% and ensuring smooth real-time control. Engineered control nodes for real-time simulation and synchronized joint movement within a physics-based environment. Technologies: Python, ROS, Gazebo, RViz, Matplotlib, NumPy.

Certifications

Introduction to Linux — NOV 2024
LinkedIn

Firewall Administration Essential Training — NOV 2024
LinkedIn

Level Up: Python Data Acquisitions, Prep, and EDA — NOV 2024
LinkedIn

Volunteering

CSE Teacher (Python) - Secondary Education Tutoring Center GNOSI — JUL - AUG 2024
Chalkida, Evvoia, Greece
Delivered Python programming courses to 15–20 students, enabling hands-on completion of 5+ small projects and improving student engagement.

IT Support Specialist (Troubleshooting) - Secondary Education Tutoring Center GNOSI — JUL - AUG 2023
Chalkida, Evvoia, Greece
Provided comprehensive IT support and maintenance, resolving technical issues promptly and ensuring uninterrupted operations and optimal system performance across the organization.

Languages

Greek (Native)

English (Advanced)

French (Intermediate)

Swedish (Self-Study)