

Charalampos Piotopoulos

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SUMMARY

I am a Computer Science student @ the Technical University of Munich.

I am always trying to evolve and learn new things by working hard and seeking new challenges.

I am passionate about Programming, Technology, Science, Cars, Medicine and Space.

EDUCATION

Master of Science in Computer Science

Technical University of Munich • Munich, DE

10/2027

Bachelor of Science in Computer Science

Technical University of Munich • Munich, DE

Minor in Medicine (Application Subject)

10/2025

Allgemeine Hochschulreife (high school diploma)

Deutsche Schule Athen • Athens, GR

Grade: 1,2

EXPERIENCE

Full Stack Software Engineer

Koinon (TUM) • Munich, DE • part-time

11/2025 - present

PROJECTS

Bachelor Thesis: Characterizing and facilitating phase-optimized iOCT visualization for ophthalmic procedures

2025 • with Carl Zeiss Meditec AG and LMU

Deep Learning, AI, Python, Agile, Medical Imaging

- Optimizing Intraoperative Optical Coherence Tomography (iOCT) for different phases of ophthalmic surgery. Surgical workflows were analyzed through expert interviews, direct observations, and interactive questionnaires to identify key phases, difficulty levels, and visual indicators. AI-based phase detection methods were explored to design phase-adaptive visualization techniques. Finally a state of the art AI-model for phase detection was developed.

Neural Network for iOCT Image Segmentation

2024 • with Carl Zeiss Meditec AG

- Segmenting retinal layers in intraoperative Optical Coherence Tomography (iOCT) volumes using a U-Net neural network model

For more projects take a look at my portfolio: <https://charalampos-piotopoulos.com/>

CERTIFICATIONS

Google Project Manager Professional Certificate

Google • 2025

- Certified in the completion of the Google Project Manager Professional Certificate by Google. Acquired knowledge in initiating, planning and running both traditional and agile projects and was prepared for introductory-level roles in Project Management

CS50

Harvard University • 2023

- Certified in the completion of the CS50 Course by Harvard University. Acquired knowledge in C, Python , Algorithms and Data Structures, SQL, HTML, CSS, Javascript and Flask

LOOPx: Lernen objekt-orientierter Programmierung

edX - TUMx • 2021

- Certified in the basic knowledge of Object Oriented Programming

Learn Python 3

codecademy • 2020

- Certified in the knowledge of the programming language Python 3

First Aid

Deutsches Rotes Kreuz e.V. | German Red Cross • 2020

- Certified in advanced first aid techniques

RELEVANT COURSEWORK

IT Security + Network Security

Python, Teamwork, IT Security, Web security

- Learned the different levels and aspects of IT Security, including vulnerabilities and how to protect against their exploitation

Introduction to Software Engineering

Teamwork, Agile Software Development, UML, Scrum, Java

- Learned the full process of creating a project as a Software Engineer from planning to designing to implementing and presenting, as well as dealing with changes in the requirements in an agile environment

Fundamentals of Algorithms and Data Structures

Java, Data Structures, Algorithms

- Implemented and learned about different Data Structures and Algorithms

Application and Implementation of Database Systems

SQL, Databases

- Learned the different aspects of Databases and how to implement them and the SQL Language

Grundlagenpraktikum: Programmierung - Basic practical course: Programming

Java, OOP

- Created solutions for small projects, ranging from beginner to advanced, written in Java, including different testing techniques

Advanced Systems Programming in C

C, Operating Systems, Low Level

- Learned about a variety of operating system concepts, techniques for debugging and optimization of low-level code and acquired a good understanding of memory- and resource management

SKILLS

Programming: Java, C, C++, Python, MySQL, OCaml, Javascript/TypeScript, React, PyTorch, CSS, HTML, MatLab and more

General: Agile Methodologies, Scrum, UML, Git, LaTeX, Computer Architecture, Team work, Problem Solving, Communication, AI

Languages: Greek (native), German (expert), English (expert), French (B2), Italian (A2)