

Carlo RAPISARDA

PLACE AND DATE OF BIRTH: Catania, Italy | May 10, 1996
LOCATION: Stockholm, Sweden
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EDUCATION

2017-19 | MSc in COMPUTER SCIENCE
KTH Royal Institute of Technology, Stockholm, Sweden
Specialized in Data Science / Machine Learning
Thesis: *RL for Dexterity Transfer Between Manipulators*

2014-17 | BSc in COMPUTER ENGINEERING
Politecnico di Torino, Turin, Italy

WORK EXPERIENCE

Ongoing | Lead AI Engineer at BONTOUCH AB, Stockholm, Sweden
JAN 2024 - | Currently leading the company's AI efforts, supporting internal & external projects.

2023-2024 | On-site Consultant at APPLE INC, Stockholm, Sweden
Worked as AI & iOS Engineer at Apple WW Sales (via Bontouch AB).
LLMs | **RAG** | **GCP** | **Docker** | **PostgreSQL** | **FastAPI** | **SwiftUI**

2022-2023 | Tech Lead at BONTOUCH AB, Stockholm, Sweden
Worked as Tech Lead within the Post-it® (3M) project at Bontouch.
The role included direct communication with partners (3M, Microsoft), mentoring junior co-workers, planning, guiding engineers within the team, as well as hands-on development.

2019-2022 | iOS Developer at BONTOUCH AB, Stockholm, Sweden
Building world-class apps at Bontouch. Part of the team developing award-winning apps for the Post-it® brand, some of which have been publicly featured and praised by Apple in multiple occasions. The product makes use of technologies including **Mac Catalyst**, **AV Foundation**, **SceneKit**, **Kotlin Multiplatform**, **CRDTs**.

JUL-SEP 2018 | Research Engineer at KTH ROYAL INSTITUTE OF TECHNOLOGY
Worked at the ROBOTICS, PERCEPTION AND LEARNING lab (RPL) at KTH, implementing methods for robot motion control, grasping, and object pose estimation with **Computer Vision** techniques.

MAR-JUN 2017 | Intern at TELEMATICA INFORMATICA, Turin, Italy
Front-end mobile development with Swift, Objective-C, React Native, Redux, React Navigation, ImmutableJS.

TALKS

MAR 2023 | IOSOHO | NYC: Sharing code across platforms with Kotlin
Kotlin Multiplatform | **iOS**
<https://www.meetup.com/iosoho/events/292083333/>

OCT 2022 | DROIDCON | LONDON: Building a real-time collaboration tool using CRDTs and Kotlin Multiplatform
Kotlin Multiplatform | **CRDTs**
<https://t.ly/zNZHV>

NOV 2021 | DEV LOUNGE | STOCKHOLM: Shiny 3D Animations on iOS
3D Rendering | **SceneKit** | **Metal** | **iOS**
<https://www.meetup.com/stockholm-dev-lounge/events/281422435/>

RESEARCH PROJECTS

JUN 2019 | Reinforcement Learning for Dexterity Transfer Between Manipulators
Python | **PyTorch** | **Deep Reinforcement Learning** | **Robotics** | **Control**
<http://www.diva-portal.org/smash/record.jsf?pid=diva2:1383140>
<https://carlorapisarda.me/projects/ms-thesis/report.pdf>

DEC 2018 | Learning Enriched Latent Spaces for Flexible Model-based Control
Python | **PyTorch** | **VAE** | **Reinforcement Learning** | **Vision-based Control**
<https://github.com/DarthPumpkin/generative-parametrizations>
<https://carlorapisarda.me/projects/gpp/report.pdf>

MAY 2018 | Video Frame Interpolation via Adaptive Separable Convolution
Python | **PyTorch** | **CNN** | **Image Processing** | **Video Processing**
<https://github.com/martkartasev/sepconv>
<https://arxiv.org/abs/1809.07759>

2017-18 | Stress and Energy Tracking System for persons with TBI
iOS | **Swift** | **Objective-C++** | **Python** | **SVM** | **Signal Processing**
<https://github.com/AssistiveTech-StressSensor/ATStressSensor>
<http://assistivetech.se/stress-sensor>

TECHNICAL SKILLS

Advanced: Swift, Objective-C, Python, C
Intermediate: Kotlin, C++, JavaScript, TypeScript
Basic: SQL, MATLAB, Rust, Java, Metal

iOS/macOS
Frameworks: UIKit, AppKit, SwiftUI, Combine, Metal, SceneKit, AV Foundation
Core Data / Graphics / Animation / ML, Accelerate, Vision

LANGUAGES

ITALIAN: Native
ENGLISH: Full Professional Proficiency (Cambridge CPE, IELTS certificates)
SPANISH: Basic Knowledge
SWEDISH: Basic Knowledge

INTERESTS AND ACTIVITIES

Artificial Intelligence, Mobile Development, Reinforcement Learning, Robotics, Computer Vision, Computer Graphics, Diversity, Equity & Inclusion, Photography, Hi-Fi Audio, Cycling.

LINKS

GITHUB: <https://github.com/carlo->
LINKEDIN: <https://www.linkedin.com/in/carlorapisarda>