

Manuel Pinto

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EDUCATION

Nova School of Science & Technology

Master of Science in Computer Science - 16.22/20

Lisbon, Portugal

Sept. 2024 – Present

Nova School of Science & Technology

Bachelor of Science in Computer Science - 15/20

Lisbon, Portugal

Sept. 2021 – July 2024

EXPERIENCE

Software Engineer Intern

Mar. 2024 – Jul. 2024

Axians

Lisbon, Portugal

- Integrated the team responsible for launching the PEPAC platform that manages €12 B in EU agricultural grants. I was responsible for developing its initial customer-service module using PHP, JS and MySQL to connect applicants with experts, and also built a real-time tracking dashboard for customer-service requests delivering instant visibility into support queues, accelerating response times.
- Presented the project's design and impact to a jury, earning a top score of 19/20.

Samsung Innovation Campus (Winner)

Oct. 2024 – Feb. 2025

Nova Executive Education & Samsung Portugal

Lisbon, Portugal

- Completed an intensive Machine Learning & Deep Learning curriculum sponsored by Samsung, covering computer vision, neural networks, and model deployment.
- Designed, trained, and integrated multiple convolutional neural network for skin-cancer detection into a cross-platform prototype, achieving over 93% accuracy.
- Led end-to-end development and pitched the AI application to Samsung Portugal's CEO, culminating in the solution being crowned the program's standout winner.

PROJECTS

Mini-Python | OCaml, Python, Shell

May 2025 – June 2025

- Built a compiler for a minimalist Python dialect, translating source code into bytecode.
- Implemented lexical analysis, parsing, AST transformations, and code generation.
- Grade: 20/20

LookOut | React, TypeScript, Next.js, C++, IoT, Firebase

Apr. 2025 – June 2025

- Developed a full-stack smart-doorbell with dual ESP32 firmware for motion & fingerprint-triggered captures.
- Built React Native/Next.js app integrating Firebase Authentication & Firestore for secure user management.
- Configured MQTT messaging via HiveMQ Cloud and Supabase Storage for resilient WSN-to-cloud synchronization
- Grade: 17.4/20

MoleMonitoring | Python, TensorFlow, PyTorch, HuggingFace, Dart

Dec. 2024 – Feb. 2025

- Performed EDA on HAM10000 dermoscopic images: artifact removal, class balancing, and normalization.
- Trained and benchmarked CNN, ResNet50, Inception-ResNet-v2+SA, and fusion ensemble architectures.
- Achieved over 93% accuracy on HAM10000
- Winner of the Samsung Innovation Campus.

MusicBox | React, TypeScript, Next.js, Turso

Oct. 2024 – Dec 2024

- Built a modern PWA with Next.js, React & Tailwind CSS, leveraging Turso DB for scalable music data storage.
- Implemented community features: ratings, reviews & collaborative playlists.
- Grade: 18/20

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, Java, PHP, SQL (MySQL, PostgreSQL)

Frameworks & Libraries: React, Next.js, Node.js, Tailwind CSS, Framer Motion, Flutter

DevOps & Cloud: Docker, Kubernetes, Azure, Git, GitHub, Postman

Databases: PostgreSQL, MySQL, Redis, Firebase

ML & Data: scikit-learn, TensorFlow, PyTorch, pandas, NumPy