

# Paul Hondola

+40745166873 | [paulhondola@gmail.com](mailto:paulhondola@gmail.com) | [linkedin.com/in/paulhondola](https://linkedin.com/in/paulhondola) | [github.com/paulhondola](https://github.com/paulhondola)

## EDUCATION

<b>Bachelor of Science in Computer Engineering</b> <i>Universitatea Politehnica Timisoara</i>	Oct. 2023 – June 2027
<b>Deepblue Maker - Underwater Robotics Summer Camp</b> <i>Hangzhou Dianzi University, China</i>	Jul. 2025 – Aug. 2025
<ul style="list-style-type: none"><li>Worked alongside a team of 6 students to design and build an underwater robot that can navigate through water and perform tasks such as mapping the environment and detecting sea life.</li><li>Mechanical: CAD design in Solidworks and 3D printing of parts. Physical testing for water sealing and buoyancy.</li><li>Electrical: STM32 microcontroller to control the robot's thrusters from a desktop computer.</li><li>Software: Raspberry Pi 5 to get a live feed from the robot's camera and display it on a screen. Developed an object detection model using YOLO to detect sea life.</li></ul>	

## EXPERIENCE

<b>Full Stack Developer Intern</b> <i>Hibyte</i>   Typescript, Angular, NestJS, Payload CMS, Supabase	Jul. 2025 – current
<ul style="list-style-type: none"><li>GameBox - A full-stack monorepo for managing a game center, featuring a content management system with admin interface and user-facing web application.</li><li>Developed with the help of a modern Tech Stack:<ul style="list-style-type: none"><li>Frontend: Angular, Typescript, HTML, SCSS</li><li>Backend &amp; Database: NestJS &amp; Payload CMS &amp; Supabase</li></ul></li></ul>	
<b>Malware Analyst Trainee</b> <i>Bitdefender</i>   Java + jadx, C & x86 Assembly + IDA, Python	
<ul style="list-style-type: none"><li>Participated in Bitdefender's Academic Labs program, focused on reverse engineering and malware analysis. Working hands-on with Windows and Android environments to analyze vulnerabilities, study malware behavior, and explore exploitation techniques.<ul style="list-style-type: none"><li>Studied Android system architecture, its security model and APKs</li><li>Developed skills in static and dynamic analysis, decompilation and disassembly</li><li>Reverse engineered simple encryption algorithms inside ransomware</li></ul></li></ul>	Apr. 2025 – Jun. 2025

## TECHNICAL SKILLS

<b>Programming Languages:</b> C, C++, Python, Java, TypeScript, Bash, SQL
<b>Frontend Development:</b> Angular, HTML5, SCSS
<b>Backend &amp; Databases:</b> NestJS, Supabase, Payload CMS, REST APIs
<b>DevOps &amp; Tooling:</b> Linux, Docker, Git, GitHub Actions, Make, Clang
<b>Languages:</b> English C1 (Cambridge Assessment)

## PROJECTS

<b>Benchmark Suite</b>   <i>Python, psutil, pycpu-info, ML libraries, NumPy, Pandas, Docker</i>	May 2025 - Jun 2025
<ul style="list-style-type: none"><li>Cross-platform system performance benchmarking suite built for in-depth analysis and comparison of CPU, GPU, memory, and cache performance across workloads, architectures, and environments.</li><li>Configurable microbenchmarks: floating point throughput, memory latency/bandwidth, thread scalability</li><li>ML workloads powered by scikit-learn, PyTorch (CPU/GPU/MPS), and TensorFlow</li><li>Compiler benchmarking with gcc / clang via real-world C project compilation</li><li>Detailed hardware info introspection (RAM, CPU cores, frequencies, per-core usage, cache levels)</li></ul>	
<b>Treasure Hunt System</b>   <i>C, POSIX system calls, Clang, Make, Git</i>	
<ul style="list-style-type: none"><li>Introduces an interactive shell-like CLI program to manage hunts and treasures via commands</li><li>Uses logs to track user operations, with symlinked logs for centralized access</li></ul>	Mar 2025 – May 2025

- Utilizes multi-process architecture and sigaction-based signal handling for inter-process communication
- Enables runtime features such as live monitoring, hunt and treasure inspection, and controlled shutdown of the monitor process

**SafetyMap - Community-driven Safety App | Java, Android, Google Maps API, Firebase** Nov 2024 – Nov 2024

- Interactive Map: Mark and view safety alerts using Google Maps
- User Alerts: Users can drop pins on the map to report issues such as thefts, road hazards, or other dangers
- Notifications: Real-time notifications for users approaching an area with a safety alert
- Community Trust System: Users can vote on the validity of alerts, contributing to a community trust score

**FPGA Video Transmission and Image Processing | Verilog, VHDL, Xilinx FPGA** Mar 2024 – Jun 2024

- Hardware based video transmission and image processing system, with camera input and display via VGA.
- Supports basic image processing and integrates with OpenCV for face recognition through UART.