

Malek Hammoud

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PROFILE

Dedicated software engineer with 3+ years of experience in full-stack development, autonomous robotics, and AI-driven solutions. Proven track record in consulting for Fortune 500 companies, delivering scalable systems and innovative recommendations that drive operational efficiency and sustainability.

EXPERIENCE

- **Playtoon It, Inc.** New York, NY, USA
Software Engineering Intern March 2025 – Present
 - **Project Setup:** Initialized the Playtoon codebase with Git version control and deployed placeholder landing page content.
- **IKEA** Consulting Project
Tech Lead & AI Consultant December 2024
 - **ML Algorithm Optimization:** Led team analysis of IKEA's product recommendation system, identifying significant improvement opportunities using CNN and reinforcement learning. Presented findings to executives with comprehensive solution deck.
- **SIMAD Foundation** London, ON, Canada
Full Stack Developer Oct 2024 – Apr 2025
 - **Platform Development:** Built and optimized web platforms supporting the Foundation's mission with scalable front-end and back-end solutions.
- **Bryck Technologies** London, ON, Canada
Software Developer Sep 2024 – Jan 2025
 - **Full-Stack Development:** Engineered scalable web application streamlining internal operations using modern frameworks and Agile methodologies.
- **Microsoft** Consulting Project
Tech Lead & Sustainability Consultant March 2024
 - **Energy Optimization Prototype:** Led development of biomimicry-inspired passive cooling system for data centers, potentially saving 100M+ liters of water annually. Presented solution to Microsoft executives.
- **Canada Wide Science Fair** Ottawa, ON, Canada
Bronze Medalist & Lead Developer, GreenGuardian 2024
 - **Autonomous Robotics:** Designed autonomous weed detection and spraying robot with advanced sensor integration, earning Bronze Medal recognition.

PROJECTS

- **EcoScout:** Software system combating littering through sensor data integration and community engagement analytics.
- **Posturepal:** Health device providing real-time posture feedback combining hardware interfacing with mobile development.

SKILLS

- **Languages:** Python, Java, C++, HTML, CSS, Node.js, PHP, SQL
- **Technologies:** React, WASP, Prisma, Linux, Git, CNN, Reinforcement Learning, Agile

HONORS

- **Canada Wide Science Fair:** Bronze Medalist, 2024
- **CCC Honors:** Canadian Computing Competition Junior, 2023