Stephen Haskins

Computer Engineer

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Education

Trinity College Dublin Expected Graduation May 2026
Year 5 in Computer Engineering & Artificial Intelligence Masters Programme *Dublin, Ireland*
- **Relevant Coursework:** Engineering Mathematics I-V, Deep Learning (Python), Computer Vision (C++), Data Structures and Algorithms (C), Computational Science (MATLAB) , Microprocessor Systems (Assembly), Information Management (SQL)
- **Results:** Year 1: 75%, Year 2: 74%, Year 3: 71%. Year 4: 77%

Projects

For latest projects, see stephenhaskins.com

Dublin Bus Pathfinding | *C* | Github page
- CSV files containing data on all bus routes/stops in the greater Dublin region were loaded into a graph
- A user can insert any two bus stop numbers, and by use of Dijkstra's algorithm, the shortest path between the inserted bus stops can be found

Autonomous Buggy Group Project | *C++/Arduino, Processing* | GitHub page.
- Using an Arduino, Motors, IR sensors and an Ultrasonic sensor, a buggy was designed to autonomously follow a track and avoid obstacles.
- A GUI was developed with Processing allowing the buggy to communicate with a laptop via a WiFi connection.
- The GUI allowed a user to enable/disable the buggy & display telemetry data such as speed & distance to obstacles.

Picture Restoration | *MATLAB* | GitHub page
- This project experimented with using partial differential equations (PDEs) to restore corrupted film images.
- The restored images were compared to the original and then the standard error was displayed for each test case.

Experience

Total time employed: 3 Years
KX 1 Year
Software Developer Intern *Dublin, Ireland*
- Conducted benchmarks for the latest KDB.AI releases, providing performance results for the marketing sales teams
- Developed an internal ad-hoc benchmarking pipeline for use by KDB.AI developers to ensure possible performance degradation is caught at an early stage.
- Utilised SonarQube for static code analysis, focusing on reducing code complexity, eliminating code smells bugs, and improving overall code maintainability.

OSS Recruitment 2 Years
Event Crew *Dublin, Ireland*
- Worked across Ireland at festivals/concerts for renowned artists including Elton John, Ed Sheeran & many more.
- Worked Front of House at the main stage at Electric Picnic 2023. Set up audio and lighting control desks in advance of festival. Operated main spotlights for Billie Eilish, Harry Styles & The Killers in front of 70 thousand people.
- Set up Guinness 6 Nation Rugby Grand Slam winning podium for a sold out stadium and over 1.45M TV viewers.

Technical Skills

Languages: Experience in primarily Python & C/C++, as well as exposure to SQL, Assembly, MATLAB & Processing
Technologies: AWS, Azure, Arduino, Rasperry Pi
Concepts: Data Structure & Algorithms, Probability & Statistics, OOP, Optimisation, Analytical & Numerical Methods **Side Projects**: Created a full stack web development website for my resume

Interests

Rugby
- Currently playing for Clontarf RFC.