Boyan Yordanov

Career Profile

An assured, bilingual and tech-savvy MSci Computer Science graduate (2:1) from Coventry University with valuable project based experience. Possessing valuable programming expertise (C++ and Python) alongside high level analytical, programming and testing abilities. Managing technical projects as project lead, ensuring a structured and holistic approach to completion. Now looking to fully utilise professional skills through graduate opportunities as a Software Engineer.

Technical and Professional Skills

Programming	Python, C++, JavaScript, HTML, CSS, Bash, Haskell, Z
MS Office:	Excel, Word, PowerPoint, Access, Outlook, Teams
Operating Systems:	Linux, Unix, MacOS, Windows
Technical Project Management:	4 years of managing technical projects during educational experiences
Languages:	Able to professionally articulate in both English and Bulgarian

Education

MSci Computer Science (2:1) **Coventry University** *2019 - 2023*

Course accredited by the Chartered Institute for IT (BCS), developing key skills including working with projects, presentation skills and working to deadlines.

Relevant modules:
Programming and Algorithms (73%), Object Oriented Programming (73.5%), Advanced Programming Paradigms (71%), Advanced Programming Algorithms (69%), Machine Learning (71%), Computer Vision (71%), Security (70%), Parallel Programming with GPUs (72%), Parallel & Distributed Programming (87%), Mathematics for Computer Science (76%), Theory of Computation (79%)

Key Projects

2022 Dissertation **"Distance Estimation For The Coventry University's Formula Student AI Car"** *Scored 73%*

- **Research:** Analysed industry-leading journals together with primary and secondary data to design and developed a modular system to estimate distance to objects using computer vision techniques.
- **Implementation and Testing:** Implemented in C++ using ROS, OpenCV and a custom DBSCAN implementation. Rigorous simulation and IRL testing.

- **Project Management:** Agile with a Kanban board to track progress.
- **Result:** Improved the distance estimation of the autonomous vehicle by 3%.

2023 Thesis **"Path-Finding Using Waypoints"** *Scored 73%*

- **Research:** Guided by industry practices, together with primary data managed to create a new path-finding module for the university's Formula Student - AI vehicle.
- **Implementation and Testing:** Developed in C++ using ROS, PCL and a custom Rapidly-exploring Random Trees algorithm. Tested IRL and in a simulated environment.
- **Project Management:** Agile with a Kanban board to track progress.
- **Result:** Improved the lap time of the autonomous vehicle by 60%.

Employment & Extracurriculars

Extracurricular Activity **Formula Student - AI Programming Team Lead** *2022 - 2023*

- Recruited and introduced 9 individuals to the pre-existing software of the autonomous vehicle.
- Appointed and guided small groups of individuals to contribute according to the set deadline and checkpoints.
- Applied the Agile methodology - led sprints, daily stand-ups and retrospective meetings.
- Evaluated the team's weekly progress and adapted sprint goals accordingly.
- Optimised legacy code by 10% by applying complex programming paradigms.
- Implemented modular components using Computer Vision, Path Planning and Mapping.
- Authored tutorials on the autonomous vehicle to guide new and current team members.

FutureWorks **Student Proctor** *2021 - 2023*

- Honed problem-solving abilities through assisting students (up to 20 hours a week) with weekly tasks and courseworks in *Advanced Algorithms and Artificial Intelligence* classes.
- Achieved a deeper understanding of subjects and an ability to convey complex ideas to others.
- Demonstrated a strong grasp of the intricacies of *Cyber Security* and *Data Science* while providing support to both lecturers and students, showcasing expertise and contributing to the academic success of the cohort.

FutureWorks **Student Ambassador** *2021 - 2023*

- Held speeches in front of prospective students about relevant university experience.
- Supervised taster sessions for both *Computer Science* and *Ethical Hacking* courses.
- Provided assistance to applicants and students via online chat and telephone calls.

Interests & Awards

- Awarded "The Standout Award" & shortlisted for "Undergraduate of the Year".
- Attended 12 NVIDIA GTC AI Conferences - 2023.
- Part of Coventry University's Ethical Hacking Society and played in 3 Capture The Flag events.
- Bouldering, mountaineering and longboarding. Loves nature and frequently explores new places.

References Available on Request