

Matt O'Connor

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Recently graduated from Coventry University with a bachelor's degree in Computer Science (First-class honours).

During university, utilised problem-solving skills, full-stack knowledge, and keen attention to detail, to design, develop, and deploy a variety of high-standard web applications; both individually, and with a team.

Quick learner, and always keen to acquire new skills and knowledge. As a result, adapts quickly to new situations and technologies.

Currently seeking a Software Engineering position within the Birmingham area, where existing skills and knowledge can be utilised and developed in a commercial environment.

Technical Skills

Project management	Agile, Scrum, Kanban
Languages	HTML, CSS, JavaScript, PHP, SQL, C++, Python, Markdown
Web applications	Node.js, Express.js, Pug.js, Bootstrap, RESTful APIs, MVC
Databases	MySQL, RDBMS, NoSQL, TSDB, InfluxDB
Tools	Git, GitHub, Mercurial, BugZilla, Postman, Slack, Trello
Cloud	Amazon Web Services (AWS), IaaS, PaaS, SaaS
Server software	Apache, NGINX, PM2
Internet of Things (IoT)	MQTT, Mosquitto, NodeRED, Grafana, Raspberry Pi, Arduino
OS administration	Windows (MCITP), Linux (Ubuntu, Linux Mint, Raspbian, AMI), Bash, Package managers (apt, yum, npm, pip)
Networks	Port-forwarding, DHCP, virtual servers, domain-name registering (GoDaddy)

Relevant Projects

Showcase • mattoc.uk

A website designed as an extended CV, with visual demonstrations of software projects. Initially a static website built with HTML and CSS, then rebuilt with Node.js, Express.js, Pug.js, and CSS Grid.

SocialBox • mattoc.uk/projects/socialbox

A web dashboard to search for content on Twitter, YouTube, Spotify, and Reddit from a single page.

- Nominated to lead a sub-team of 4 developers in designing, building, testing, and deploying the front-end using HTML, CSS, Bootstrap, JavaScript, Node.js, Express.js, RESTful APIs etc.
- Contributed to Scrum meetings (stand-ups & sprint reviews)
- Communicated with team using Kanban boards, Slack and Trello
- Co-ordinated development with the back-end sub-team who were building the corresponding API
- Maintained and improved the back-end RESTful API, using JavaScript, Node.js, and Postman

Sensor monitor • mattoc.uk/projects/sensor_monitor

A web-based environment-monitoring platform, to facilitate research at the Wrocław University of Environmental and Life Sciences, Poland.

- Individual system development project for final-year dissertation
- Worked closely with academic stakeholders to design a suitable system
- Implemented data-collection with Python, MQTT, Node-RED, and InfluxDB
- Implemented web-based visual monitoring dashboard with Grafana
- Documented the project with a 14,000-word report, titled, "*A web-based data-collection system for monitoring the incubation of bird eggs*"
- Strongly recommended by supervisor to be published in the academic conference paper

Coen • mattoc.uk/projects/coen

A web-based suite of applications to modernise various workflows of a construction company named 'Coen'. Built with a team of students.

- Documented the user-requirements using UML, and used these to design a suitable system
- Contributed heavily to the UI design
- Led a team of 2 developers in implementing the system design using HTML, CSS, Apache, MySQL, SQL, PHP, and phpMyAdmin

Experience

IT Technician - Queen Mary's High School, Walsall (2011 - 2011)

Worked with a close-knit team of IT professionals to prepare the IT equipment for the upcoming academic year, including:

- Upgrading every computer from Windows Vista to Windows 7
- Troubleshooting software and hardware problems
- Performing general maintenance tasks on equipment (e.g. projectors and printers)
- Relocating equipment to facilitate other works at the school

IT Technician - St. Francis of Assisi, Walsall (2010 - 2011)

Worked in a close-knit team within the IT department, using communication and problem-solving skills to assist staff and students with resolving a range of IT issues; escalating where necessary.

Education

Coventry University (2012 - 2018)

BSc. Computer Science (First-class honours)

- Accredited by the British Computer Society (BCS)
- 15 core modules including: "Software Engineering", "Operating Systems, Security and Networks", and "Programming, Algorithms and Data Structures"
- 5 elected modules including: "Agile Development", "Open-Source Development", and German language
- Complete list of modules available at mattoc.uk
- Variety of software development projects simulating the workplace environment: Small teams, use of development methodologies e.g. Agile Scrum, assigned roles / responsibilities, stakeholder role-play, software requirements given by real-world professionals / companies

Extracurricular Activities:

- Selected to attend 2 week-long field trips to Germany (Berlin and Hamburg) to experience the country's culture and language
- Member of Coventry University Mountaineering Society which included weekend trips to the Yorkshire Dales, Peak District, and Lake District. Enjoyed activities including hiking, caving, ghyll scrambling, and rock climbing

Walsall College (2010 - 2011)

Advanced Apprenticeship (level 3) in IT

- Certified by City & Guilds
- A range of certifications from e-skills UK, City & Guilds, Microsoft, and CompTIA

St. Francis of Assisi, Walsall (2004 - 2010)

- 2 AS-levels: Information Technology, Maths
- 7 GCSEs at grade A*-C including English and Maths | ECDL and ECDL Plus

Extracurricular Activities:

- Selected as captain of the school's basketball team

Additional Information

Played basketball for City of Birmingham Rockets, and was selected to compete in Regional, National, and overseas tournaments in a range of age-brackets. Was on Birmingham's first team to qualify for the Final Fours event at RAF Cosford to conclude the National Basketball League's under-14s tournament; placing 2nd overall. This provided invaluable experience of using teamwork and communication to overcome challenges.

Passionate about travelling and outdoor activities. Recently went skiing in Andorra, visited Mexico near Cancun, and climbed several mountains in Wales and Scotland: Snowdon, Cadair Idris, Ben Lomond.

References

Received a glowing letter of recommendation from supervisor of final-year dissertation project; available on request.