

David Miles

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I'm David, and I've been writing software for over 20 years using a wide variety of tools and technologies. Recently, I've been focusing on **full stack development** using .NET, but in the past I've worked on desktop software using .NET Forms and WPF, mobile apps for Android and iOS, educational courseware, and even embedded development for ARM and PIC microcontrollers.

In my spare time, I enjoy experimenting with photography, playing and dabbling at making video games, and working on a range of projects.

I enjoy working on products end-to-end, and finding sensible solutions to interesting problems.

Key skills

- Analysis and evaluation
- Teamwork and collaboration
- Complex problem solving
- Training and mentoring
- Creative and innovative
- Working with key stakeholders
- Technical writing
- Third level customer support

Career experience

CONTRACT TECHNICAL AUTHOR, RASPBERRY PI FOUNDATION, REMOTE - 2024

Wrote article included in MagPi magazine #146 on making legacy hardware work with modern computers

- Python and embedded development
- Technical writing for a public audience

SENIOR DEVELOPER, CIVICA/AGYLIA GROUP, BRISTOL – 2008-2024

Lead developer adding new features to a web based learning platform, using C#, Go, Javascript, Docker, and assorted AWS and Azure services in a devops environment

- Complex problem solving
- Working in a team environment to build and deploy software
- Working to deadlines
- Analysis and specification of product requirements with internal and external stakeholders

- Responsible for handling third line support using Zendesk to resolve customer issues
- Contributed to annual product planning process with leadership and management teams

Support and led development for iOS and Android apps using Objective C and Swift in Xcode, and Java and Kotlin in Android Studio

- Creative and innovative
- Mentored junior team members

Designed and built SaaS based xAPI LMS, enabling storage and reporting of learning data using Node.js, TypeScript, MongoDB, and PostgreSQL

- Systems design
- Prioritisation and management of tasks
- Experience configuring and using continuous deployment

Lead developer on desktop e-learning content creation system, using MVVM WPF/C#, producing xAPI and SCORM tracked jQuery/HTML5 content for hosting on a LMS

- Teamwork and collaboration

SOFTWARE ENGINEERING INTERN, GOOGLE, MOUNTAIN VIEW, USA – 2007

Member of Java Infrastructure Team, working on a variety of core infrastructure libraries and tools using Java, C++, and Python

- Analysis and evaluation
- Complex problem solving

Education and systems experience

Durham University – MMath Mathematics 2008

SYSTEMS EXPERIENCE

- | | | |
|---------------------|---------|-------------------------|
| • Modern Javascript | • SQL | • Git and GitHub |
| • Typescript | • HTML5 | • Node.js and NPM |
| • C# and .NET Core | • CSS | • Containers and Docker |
| • ASP MVC Core | • React | • RabbitMQ |

- Continuous deployment
- AWS, EC2, ECS, CloudFormation
- Azure
- VS Code

Interests

ROBOTICS AND EMBEDDED DEVELOPMENT

- Worked on a range of projects involving embedded development and hardware
- Produced 3D printed assemblies and projects, built and maintained 3D printer

PARTICIPANT IN RANGE OF GAMEJAMS AND HACKATHONS

- Award winning entries in various game and other code jams

PHOTOGRAPHY

- Assorted photography of events and travel
- Custom 3D printed large format instant photography

JAPANESE LANGUAGE

- Intermediate Japanese language skills