David Miles

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I'm David Miles, 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
- Complex problem solving
- Creative and innovative
- Technical writing

- Teamwork and collaboration
- Training and mentoring
- Working with key stakeholders
- Third level customer support

Career experience

CONTRACT TECHNICAL AUTHOR, RASPERRBY PI FOUNDATION, REMOTE - 2024

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

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

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

- Support and led development on iOS and Android apps, using Xcode and Android Studio

- Evaluated and specified new features and development working with internal and external stakeholders

- Responsible for handling third line support with support using Zendesk to resolve customer issues

- Contributed to annual product planning process with leadership and management teams

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

- 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

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

Education and systems experience

University of Durham – MMath Mathematics 2008

SYSTEMS EXPERIENCE

- Modern Javascript
- Typescript
- C# and .NET Core
- ASP MVC Core
- SQL
- HTML5

- CSS
- React
- Git and GitHub
- Node.js and NPM
- Containers and Docker
- 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