

Curriculum Vitae

Joseph Bain

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About Me

I am an intelligent and enthusiastic software engineer with solid programming experience and a strong passion for video games. My particular areas of interest are 3D graphics and AI, but I have a wide skillset and am a strong team member and inventive problem solver.

Education

- 09/05
– 07/09 **University of Edinburgh**
BSc (Hons), Artificial Intelligence and Computer Science (First class)
With courses including Computer Graphics (A), Computer Animation and Visualisation (A), Advances in Programming Languages (A), Computer Communications & Networking (B), Software Engineering (B), Operating Systems (B), Human Computer Interaction (A).
- 09/02
– 07/04 **BHASVIC**, Hove, East Sussex
A levels: Maths (B), English Literature (A), Philosophy (B)
AS levels: Media Studies (B)
- 09/98
– 07/02 **King's Manor C.C.**, Shoreham-by-Sea, West Sussex
GCSE's: 2 A*'s, 3 A's, 4 B's

Employment

- 09/09
– Present **Realtime Worlds Ltd.**, Dundee
Jnr. Software Engineer in Test
- C# development
 - Writing and reviewing software tests.
 - Maintaining and expanding automated test suites.
 - Advising and supporting other developers in writing unit and integration tests.
 - Writing and maintaining of an artist tool – gathering requirements and development in C# using WinForms
 - Extensive use of version control software (Perforce).

- Working in an Agile development environment

10/08
– 12/08
(Part-time)

Intrelate Ltd., Edinburgh

Software developer

Researched and developed a prototype telephone interface to the company's existing CRM system. I worked alongside permanent employees to gather specifications for the system and presented my recommendations to the CEO. I installed and configured an open-source VoIP telephony system and wrote a set of scripts in the Lua language to demonstrate the system for the company's clients.

06/08
– 09/08
(Summer placement)

The Hydrogen Office Ltd., Edinburgh

System developer

Designed and implemented a real-time energy monitoring system to take automated readings from electricity, heat and other energy meters. The program included a GUI for set up and administration, stored energy readings, calculated carbon savings and posted live information to the organisation's web site. The system was written in Java and Swing and used a PostgreSQL database.

Skills

I have a good working knowledge of:

- OO languages and design (C++, C#, Java)
- Test engineering, unit testing and TDD (using NUnit, Junit, RhinoMocks)
- Version control systems (P4, SVN, git)
- 3D graphics, particularly OpenGL
- Linux
- C and low-level embedded / robotics programming

I have an intermediate knowledge and experience of:

- Web development (HTML, CSS, Javascript, JQuery, PHP)
- Database design in SQL (MySQL, PostgreSQL)
- Functional languages (Haskell, Ruby, Python)
- Other languages (Prolog, Lua, bash, make)

Activities and Interests

I play keyboard and bass guitar and write songs, I also listen to a lot of music and love seeing live acts in Edinburgh and Glasgow. I am an avid reader, some of my favourite authors include Kurt Vonnegut Jr. and Arthur C. Clarke, and I read a range of different genres and styles. I love video games – racing games particularly, but I am hopeless at FPS's; I also love the ingenuity and creativity in many modern indie titles. I am always interested in improving my programming and have worked on several open source projects in my own time, links are available on my website.

References

Available on request.