Bradley Chatha

Qualifications

2017–2020 **Various subjects**, *AIM Educational Ltd*, Atherstone.
- Level 2 Mathematics
- Level 2 English Reading & Writing
- Level 2 Catering
- Level 2 Employability

2015–2017 **Level 3 Computer Science (A Level)**, *Pembrokeshire College*, B.

Experience

2017–2020 **Work Experience - Student Developer Aide**, *AIM Educational Ltd*, Atherstone.
Alongside my status as a student, my capabilities allowed me to work on several projects for AIM:
- FarmMaster (C#, ASP Core, PSQL, SASS, Gulp, Webpack, JS&TS, EF Core, Vue, GraphQL)
  - A WIP Website solution used to keep track of and manage livestock.
  - I was the sole, full-stack developer of this project.
- AimCLITool (D, Docker)
  - A custom CLI tool used to easily manage various needs I have, such as automatic deployment and secrets management.
  - Built on top of my custom CLI and Dependency Injection frameworks: JCLI (D), and JIOC (D)
- PolyMaster (Likely: Same as FarmMaster, but with Arduino/ESP32 added)
  - The project was in the pre-planning stage, it would've been used to automatically manage AIM's new polytunnel.
  - Arduinos/ESP32s would have been used to monitor and automate various parts of the polytunnel.
  - A web interface would have been provided to monitor/interact with the various aspects that PolyMaster could manage.

Skills

Misc Good time-keeping; Hard worker; Self-motivating; Ability to self-teach.

Misc Works well independently; Quick learner.

Hobbies

Coding I maintain two open source D libraries - JCLI, and JANSI. I also have a few side projects.

Gaming I'm a fan of a wide variety of genres.

Awards

28th June 2019 **School Farm Innovation Award**, *School Farm Network*, Royal Agricultural University.

References

Andy Radford Owner of AIM Educational Ltd - Previous owner and developer of a PoS software company.

Deborah Wagg Headteacher and Mathematics teacher of AIM Educational Ltd.

Blogging

On my personal website (see footer) I host my blog, which currently contains:

- A short tutorial series covering the vast metaprogramming power of D, by creating a JSON serialiser.
- A tutorial series showing misc. projects where D can let you do complex things easily using metaprogramming.
- A changelog for my CLI library - JCLI.

Contributions & Projects

DLang   I have made several contributions to the D programming language and its community, such as: Documentation and additions for Phobos - the standard library, fixes & additions to public D libraries, and the creation of my blog which as stated previously, features D.

JCLI   I currently maintain an open-source library called 'JCLI'. A D library used to help create command line interface tooling.

JANSI   I also maintain an ANSI (SGR) library in D which aids in the ability to output and also parse ANSI-encoded text.

SdlangSharp   A C# library that is accelerated by SIMD intrinsics to quickly parse .sdl files into tokens or a DOM.

Learning Resources

Obvious   Google; Stackoverflow; MDN; docs.microsoft.com; Youtube

Book   Clean Architecture by Robert C. Martin

Book   Clean Code by Robert C. Martin

Book   Programming in D by Ali Çehreli

Book   Game Programming Patterns by Robert Nystrom

Webinar   Microsoft Azure Virtual Training Day: Fundamentals

Website   vulkan-tutorial.com - For Vulkan, a very low-level GPU API.