



Jonathan Mitchell 

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Personal Statement

I am an experienced contract programmer looking for interesting and challenging computing projects. My skill set is wide and I enjoy learning and problem solving. However, I also know full well the effort and tenacity that is often required to bring a software project to a successful conclusion.

My off-shore location dictates that a degree of remote working is a requirement. Remuneration is negotiable. Both long and short term positions are acceptable.

Core Competencies

Objective-C and OS X development

- Objective-C, C, Cocoa, Foundation, CoreData, AppleScript, AppleScriptObjC.
- Framework development, plug-ins, command line tools, network programming.
- MVC, RC and GC memory management, threaded code.
- Xcode, Instruments, git.
- Familiar with iOS development.
- Familiar with shell programming, Java, JavaScript, Lua, Perl, Python, Ruby.

Windows development

- C#, C, C++, .NET, LISP, T-SQL, Visual Basic, Office Macros, COM.
- Visual Studio, Excel, SQL Server.
- Windows server configuration, IIS, RDP.

Web development

- Drupal based site design, module coding and implementation.
- Wordpress implementation.

- LAMP, XAMPP, Linux VPS host configuration.
- PHP, MySQL, HTML, HTTP, XML, SOAP, CSS, JavaScript, Markdown.
- Eclipse, Photoshop, Fireworks.

Project History Highlights

KosmicTask (current): KosmicTask is an integrated scripting environment for OS X that provides remote script execution, editing and building. The application uses a multi-tier design and provides plug-in based scripting support and task templates for AppleScript, AppleScriptObjC, Bash, C shell, C, C++, F-Script, Java, JavaScript, JSCocoa, Korn shell, Lua, Lua Cocoa, Perl, PHP, Python, Py-ObjC, Ruby, Ruby-Cocoa, Tcl, Tenex C shell and Z shell. For more details see www.mugginsoft.com/kosmictask.

Conservatory Quoting System (ongoing support): a client-server conservatory quotation system. A Visual Basic client provides a graphical interactive conservatory design environment that has been optimized for use over RDP. The server is a C# .NET web service hosted in IIS that provides detailed conservatory quotations based on the model data sent by the client. The server interfaces with a C DLL and with Excel via COM. Both client and server components use SQL Server for data storage.

Conservatory Design System: An AutoCAD powered conservatory design system that provides custom 2D design and production information including profile cutting sizes and required glazing. AutoCAD customization is achieved in LISP, C, C++ and Visual Basic. Production information is generated using a Visual Basic GUI that calls a C DLL and a complex Excel sheet.

Car Dealership Website: (ongoing support): A Drupal powered multi-franchise car dealership website featuring numerous content types and custom modules. Vehicle HTML data is scraped daily from a number of diverse vehicle manufacturer sites, displayed and indexed on site and then exported to a range of third party vehicle advertisers. The site provides a portal for staff in 8 locations and features detailed vehicle searching, staff contact information and vehicle offers. Hosted on a Linux VPS using Apache, PHP and MySQL.

Aluminium Louvre Production: An Excel based system that provides detailed profile cutting sheets for aluminium louvres. Stock optimization was achieved using an improved build of an open source C++ cutting stock optimization solution based on <http://code.google.com/p/cspso/>. Optimization was not provided on the client but on a Linux Internet based VPS that received the problem data from the Excel client via HTTP.

R and D Tracking System: A C# multi user forms based database application designed to guide users through a precise R and D workflow that included tracking software releases, prototyping, fabrication manual updating, testing, pricing and web updates. SQL Server was used for data storage.

Significant Client History

- Atlas Glazed Roof Solutions (2012 - current)
- BDG Group Limited (1993 - 2012)
- Roadside Motors Limited (2009 - current)
- Metal Technology Limited (2009 - 2010)
- Conservatories and Extensions Limited (2012)
- Rathlin Development and Community Association (2012 - current)
- Rathlin Island Books (2012)
- Audio Processing Technology Limited (1990 - 1992)
- Software Ireland Limited (1988 - 1990)

Other Professional Information

- Published author in MacTech - The Journal of Apple Technology.
- Recipient of an Invest NI Innovation Voucher (2011-2012).

Education

- **MSc Engineering Computation** (1987)
Queen's University Belfast
- **MA Engineering** (1985)
Cambridge University

Personal Interests

Computing, reading, and running.

My open source repository is available at <https://github.com/mugginsoft>. I maintain, amongst others, Fragaria, a Cocoa syntax highlighting view and contribute to a wide range of projects including F-Script, a Cocoa scripting language and JSCocoa, a JavaScript-Cocoa bridge.

I am also an active member of the Volunteer Coastguard Service and the local community development association.

References

References can be supplied on request.