

# Mgr. Petr Přidal

## Profile

Software developer specialized in web 2.0 technology, digital cartography and applications of open-source software. Managing Director of [Klokán Technologies GmbH](#).

## Skills

- **Programming and scripting** (Python, C, C++, Java, PHP), **expertise in web-technologies** (AJAX, JavaScript, HTML, CSS) **and digital cartography**, XML and data conversions, databases, and digital libraries.
- **Team leading skills**: communicative, able to motivate, able to rationalize problems and divide it into separate smaller tasks, organize and manage a small team or a group of freelancers.
- **Ability to design, prototype and implement** user-friendly interfaces for desktop or web applications. Knowledge of online marketing (SEO) applied to all web-related projects.
- **Assembling of existing Open-Source projects to automate complex tasks**, exchange data and convert file-formats.
- **Experience with multi-platform development and deployment** (Mac OS X, UNIX - Linux, Solaris and Windows).
- **Open to new challenges and projects**. Able to quickly adopt new technologies and programming languages, able to combine existing projects and re-use available source code.

## References & Projects

As a freelancer I have worked on various projects for several clients, here is the list of most important projects with references to the clients and with links to relevant details or developed software:

**Parallelized rendering of maps, web applications such as mobile signal coverage maps - for Orange, UK ([link](#)); Three, UK ([link](#)); David Rumsey, USA ([link](#)) and other international clients**

*Development of a custom software for efficient heavily **parallelized rendering of online maps on a computer cluster (Amazon EC2)**. Consultancy and design of the complete workflow, customization of existing open-source software tools and development of the final web interface. Several contracts in 2009, result is a product: [ppgdal2tiles](#).*

**MapTiler / GDAL2Tiles - for Google Inc., Summer of Code 2007/2008 (OSGeo) ([link](#))**

*Open-source software product for user-friendly **web 2.0 map publishing** in a form of overlays for Google Earth / Google Maps / OpenLayers. Used by: US Forest Service, European Commission Joint Research Center, Canadian Ministry of Environment, BRGM (Bureau des Recherches Géologiques et Minières), National Library of Scotland and several commercial companies all over the world.*

**B2B systems, data exchange automation, e-journaling - for MarineTrans AS in cooperation with Gudthlandum Consulting, Norway ([link](#))**

*Design and development of a **digital archiving system for business documents and a business to business gateway** for an large international client. Implementation of a SOAP and JSON XML gateway, application of XSLT, conversion of XML, data exchange with FileMaker database (via custom [PyFileMaker](#)). **Email robots** for submitting and automated parsing of filled forms (in the Microsoft Excel format) for communication with suppliers.*

**Product: FileMaker Plug-In for Cartographic Projections - for Naturkart DA, Norway ([link](#))**

*Complete end-user product design & development of a commercial Plug-In for FileMaker database (Mac, Windows, C, C++). Practical use of Apple XCode and Microsoft Visual Studio.*

**Web development, SEO, design and corporate identity for Scotland Ltd., Czech Republic ([link](#))**

*Graphic design, corporate identity, search engine optimization (the web is for several keywords at the first position at Google), AJAX (jQuery) & web programming (Python, MySQL, PHP) for a small business. Implementation of a validating parser for a custom grammar maximally simplifying the definition of compatibility for scooter spare*

## Contact:

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## Languages:

Czech:  
Native speaker

English:  
Advanced  
(Cambridge First Certificate in English)

German:  
Upper-Intermediate

## Nationality:

Czech

## Born in Brno, CZ:

Dec 16 1980

## Marital status:

Single

## Driving licence:

Group B

parts. Application of Google technologies such as Google AJAX Search API, AJAX Feed API, Analytics, Calendar, Groups, Gmail used as simple CRM, SiteMap.xml.

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### **UNIX and Linux administration - for Moravian Library Brno ([link](#))**

Administration of servers (Linux Debian, Sun Solaris), configuration of network infrastructure (firewalls, NAT). Installation and configuration of Samba, LDAP, Apache, traffic shaping. Design of the public WiFi gateway. Development of a kiosk web browser (GTK, Gecko, C) for Sun Solaris SunRay terminals in a public library.

### **Reverse engineering of a proprietary binary format (OpenSource: Python) ([link](#))**

Decoding of the database of Lingea dictionaries into a form usable on iPhone, Linux and Mac platform.

### **Development of MPlayer OS X - a movie player (OpenSource: C, AppleScript, Objective-C) ([link](#))**

First application ever able to play DivX movies natively on Mac OS X, port of the original project from Linux, design of a simple user-friendly interface and of the installer. **Popular project: over 5 million downloads!**

### **Development of a dictionary application Dict OS X (OpenSource: Objective-C) ([link](#))**

A dictionary application written for Czech competition in programming for Mac OS X. **It won the 1st prize.**

## **Education & Research**

*Technical manager of a R&D project "Old Maps Online" - <http://www.oldmapsonline.org/>*

Research project of Moravian Library in Brno supported by Czech Ministry of Culture. It aims to develop software to assist in the management, manipulation and visualisation of historical map collections on the web. Active contact with national libraries and another institutions across Europe that are publishing old maps. Contribution to several Open-Source projects, development of online tools and products such as [Georeferencer.org](http://Georeferencer.org), [IIPImage JPEG2000](http://IIPImageJPEG2000) or [MapTiler](http://MapTiler).

*PhD candidate at Czech Technical University in Prague, Czech Republic*

Distance study in a Doctoral programme of Cartography and Geodesy at Faculty of Civil Engineering at CTU in Prague (active, till 2011).

*Master's degree in Applied Informatics, Faculty of Informatics. Masaryk University, Brno, CZ*

2007, Master's dissertation: Processing and Digital Publishing of Historical Documents.

Available at <http://www.staremapy.cz/> and as publication with ISBN:978-80-7051-173-2. Presented in Czech National Archive and in Czech Academy of Sciences.

A prize in the national competition: *Czech IT Diploma Thesis of the Year 2007.*

## **Presentations at International Conferences**

OldMapsOnline.org (2008-2010): FOSS4G 2009 [Sydney](#); ICHC 2009 Copenhagen; ICA CartoHeritage Workshop: Venice, Barcelona, Vienna; ELAG 2009; Geoinformatics 2008, 2009: [Prague](#).

Map Curator Workshop 2009, [Edinburgh](#), UK, *invitation by British Cartographic Society.*

FOSS4G 2007 International Conference, Victoria, Canada; *invitation by Google Inc.*

## **Hobbies**

Sport in general (trekking, mountaineering, skiing and snowboarding, swimming, badminton), traveling (Nepal, India, New Zealand, Syria, Iran, Canada and Europe), music, dancing and photography.

*More info about work experiences and professional connections at my [LinkedIn profile](#).*

*More info about my personal life at my [FaceBook profile](#).*