Augusto Andreoli

Python Developer
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Summary

- An experience of 10+ years in software development.
- Skilled in object oriented design, requirements analysis, database modelling, programming and user interfaces.
- Ease of learning, self-taught, constantly updated with specialized readings.
- Currently living in Berlin, Germany.

Specialties

- Current stack: Python, Flask, Celery, PostgreSQL, AWS, SQLite, Ansible.
- Previous experience with PHP, C#, C++, ASP.NET, Oracle, MySQL, SQL Server.
- Object oriented programming and design (OOP).
- Relational databases modeling (MySQL, Oracle, SQL Server, SQLite).
- Backend web development, RESTful APIs.

Current skills and expertise

- Python
- Flask
- PostgreSQL
- Celery
- Amazon AWS
- Ansible
- SQLite
- macOS
- Linux/Ubuntu/CentOS
- Git
- Bash/zsh/xonsh
- Regular Expressions
- Object Oriented Programming
- Data Modelling
- Agile: Scrum with Trello
- MVC
- TDD, unit tests
- CI with Jenkins

Previous skills

- PHP
- C#
- C++
- .NET Framework
- ASP.NET MVC 2
- ADO.NET
- Ruby on Rails
- Java
- Visual Basic (6, 5, 4)
- MySQL
- MongoDB
- Oracle 11g, PL/SQL, stored procedures
- Oracle (10g, 9i)
- Microsoft SQL Server (2005, 2000)
- SQLite
- Sphinx search
- Microsoft Access (2010, 2007, 2002, 97)
- Subversion + commit hooks
- Microsoft SourceSafe
- XML
- jQuery, JavaScript, AJAX
- HTML, CSS
- Drupal CMS
- Linux (Debian)
- Microsoft Visual Studio (2002 a 2010)
- Entity Framework 4.0
- UML
- Windows (7, Vista, XP, 2000, NT)
- OLEDB, ADO, ODBC
- ActiveX (DLL, OCX)

Languages

- Portuguese (native)
- English (fluent)
- Italian (advanced)
- German (intermediate)
- Spanish (beginner)

Professional Experience

EatFirst.com (Berlin, Germany) *Oct, 2014 — today*
Python backend developer

Activities:
- Rewrite of a PHP application into a Python API using Flask and PostgreSQL.

Projects:
- Online restaurant with delivery service, currently operating in London.
- We helped creating an API for this service, to be used by our mobile and web applications.
- JSON API using Python 3.5/3.6, Flask, SQLAlchemy, Celery 4.
- PostgreSQL 9.6 with PostGIS (for geographic objects).
- Payment using credit cards, SEPA, PayPal and Apple Pay through the Adyen payment gateway.
- Messaging integration: Mandrill and Mailchimp for e-mails, Nexmo for SMS and automated calls.
- Linting with pylint, flake8 (PEP8, PEP257), MyPy.
- Multi-language app (English/German) using Flask-Babel and Transifex for translations.
- Docker for local development, Jenkins for deployment, AWS for production (EC2 containers, S3 bucket storage, RDS database, Fargate, Lambda).
- Quick involvement on the front-end project, using a Flux-like architecture, with Node.js, Riot, Backbone.js, Underscore.js.
- Agile methodolody (Scrum/Kanban) with project management tools (Trello, Jira, Confluence) and GitHub for related issues and code.

Folha.com (known as Folha Online) *Aug, 2010 — Apr, 2014*
Backend developer

Activities:
- Collaboration with the internally developed PHP framework and its class library.
- Development of web applications (administrative and public).
- Data modeling and object-oriented design.
- QA Tools: code quality and coding standards (PEAR Code Sniffer), design patterns, continuous integration (Jenkins).

Projects:
- Internal PHP framework. Main contributed classes: Portuguese text hyphenation, generic CRUDL controller, model class to manage master/detail tables, data manipulation tree.
- Newspaper Subscriptions: migration from a desktop system (Oracle Forms) to a LAMP environment.
- Paywall: reading limits for subscribers (Internet users can see up to 40 stories per month; beyond that, only subscribers can read).
  First newspaper in Brazil to use this technology, based on what NYT has done in the USA.
  Using MongoDB and MySQL for reports (visitor count and unique hits count).
  Handling of 5 million records per day and up to 90 million records per month.
- Elections 2012
- Folha Classifieds: administrative and public areas (ad capture, credit card charges, integration with other systems).
  Migration from the internal desktop system (Windows, C++) to a LAMP environment.

Folha de S.Paulo - Classifieds IT Department *Jun, 2001 — Jul, 2010*
Desktop and web developer

Activities:
- Conversion of C++ and Visual Basic 6 desktop applications to C#.
- C# class libraries and OLE/ActiveX components.
- Maintenance of VB6 legacy code.

Projects:
- All the Classifieds Dept. reports in C++, generating results in Excel, text files or e-mail.
- A C# Windows Service to update the Livraria da Folha (e-commerce bookstore) inventory, using XML files to transfer data.
- Creating a C# class library (a rough internal framework).
- Internal technical documentation with Drupal CMS (after researching Joomla and Wordpress). Used modules: project, issue tracker, tasks, notifications, custom content types.
- An OLE C++ 1.52 component talking with a 16-bit DLL developed by a third party, to use inside a VB6 program.

- Application setup wizards with NSIS (Nullsoft Scriptable Install System).
- Maintenance of Visual Basic 6 applications, all of them like "satellites" of the main C++ ad capture system.
- Migration from Microsoft SourceSafe VCS to Subversion.

Food Service Solutions Inc.   *Sep, 1997 — May, 2001*
Desktop developer / Project coordinator

Activities:
- Developer and subsequent development coordinator of Dietoterapia (a diet therapy system).

Projects:
- Dietoterapia (something like "Diet Therapy" in Portuguese): a nutrition system developed for health professionals.
  Helps preparing customized menus for patients, nutritional status assessment, planning and monitoring of exercise for athletes.
  Used in large hospitals and by nutritionists in Brazil and abroad (Spain, Mexico, Portugal, USA).
- Use of commercial software InstallShield to generate installation setup wizards.
- Creating reports in Crystal Reports 7.0 and 6.0, using data returned by stored procedures, text files, Active Data, Microsoft Access, and other databases (ODBC).
- Manipulating Crystal Reports using the OCX control, or through the Crystal Automation Objects class library.
- Internationalization (i18n) and localization (l10n): using resource files to isolate all system messages, helping in the translation to other languages, and creating a multilingual system.

Itaú Bank   *Jul, 1998 – Oct, 1998*
Desktop developer / Consultant

Activities:
- Providing services as a developer and consultant.

Projects:
- Member of the Electronic Billet system development team.
- Logical and physical modeling with the ERWin tool.
- Development of the "Financial Quotes" module.
- Reports in Crystal Reports, with results obtained from stored procedures.

Telefonica (know then as TELESP)   *Feb, 1996 – Aug, 1997*
Desktop developer / Consultant

Activities:
- Providing services as a developer and consultant.

Projects:
- Development with Gupta's tools Centura and SQLWindows 5.03 (fully object-oriented already in 1996), reading an Informix database in a Unix environment.
- Appointments Management System, Contracts and Purchase Orders, using client/server technology and object orientation.

SESC ("Social Service of Commerce" in Portuguese)   *Mar, 1993 – Aug, 1997*
Desktop developer / Consultant

Activities:
- Providing services as a developer and consultant.
- Deployment of POS software.

Projects:
- Access Control by an electronic ticket gate, deployed in SESC units Ribeirão Preto and São Carlos (langauges: C, Clipper, Microsoft COBOL 4.5).
- SESC Carmo's restaurant system: registration of served food and receipt control made at POS terminals (Visual Basic 4.0 and Microsoft Access).
- Business Automation using Point of Sale Terminals (POS), performing receipt, financial and accounting functions. Personally deployed in several SESC units throughout the São Paulo state (Microsoft COBOL 4.5, Microfocus COBOL/2 for UNIX).
- SESC's Public Attendance System: member registration, courses, dental care, deployed in all SESC units (Microfocus COBOL/2 for UNIX).
- Barcode creation routine using the Interleaved 2 of 5 standard, used to print member identification cards (C language for MS-DOS and UNIX).

Courses

University of California, Berkeley   *3 months   2012*
Software Engineering for Software as a Service (SaaS)

Microsoft Official Course - Web Developer @ KA Solution (Microsoft Partner)   *632 hours   2009*
4994A: Introduction to Programming Microsoft .NET Applications with Visual Studio 2005
2956B: Core Foundations of Microsoft .NET 2.0 Development
2957B: Advanced Foundations of Microsoft .NET 2.0 Development
2541B: Core Data Access with Microsoft Visual Studio 2005
2543B: Core Web Application Technologies with Microsoft Visual Studio 2005
2542A: Advanced Data Access with Microsoft Visual Studio 2005
2544A: Advanced Web Application Technologies with Microsoft Visual Studio 2005

Agit Informática   *80 hours   2002*
Visual C++ 6.0

Agit Informática   *60 hours   2002*
C++ Language

Education

ICIB (Italian/Brazilian Cultural Institute)   *2010 — 2012*
Italian (8 modules, from beginner to advanced levels)

Miguel de Cervantes College   *2002*
Espanhol (2 beginner modules)

USP - University of São Paulo   *1995 — 1996*
Bachelor Degree in Psychology (incomplete)

Escola Técnica Federal de São Paulo (ETFSP, currently known as IFSP)   *1990 — 1993*
Computer Science Skilled Training