ALEXANDRE BORGOLTZ

PROFILE

Senior Java Contractor looking for his first international mission

Often referred to as a "Swiss army knife", with experience in
- *web dev*
- *native dev*
- *software engineering setup*
- *(Big) data management*

Autonomous, fast-learner, keen on innovative technologies
Google certification for Tensorflow / Self starter on AI technology
Freelance contractor since 2008, looking for a remote-first position

CONTACT

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⌂ Based in France

✓ Open to remote work

WORK EXPERIENCE

Senior Dev | *HR Data*

2023

The HR department needs a complex, taylor-made, rule-based planning tool.
- Developped a configurable planning engine based on Eclipse EMF.
- Developped integration with LDAP + import of resource availability files
- Integration with MS Graph APIs to create events directly in attendees Outlook calendars

Eclipse EMF | MS Graph

Senior Dev | *HR Data*

2023

The HR department managers needs aggregated dashboard.
- Developped a simplistic ETL utility, with focus on the ease of use per non technical users
- With support for various (exotic, non-industrial) file formats
- Loaded and transformed in a DB with no adminstration needs (SQLite)
- Developped automated export to Elasticsearch
- Setup dashboards in Kibana
- The java application is compiled into a native executable throush GraalVM.

Java | GraalVM | JDBC | Elasticsearch | Kibana

Training | *AWS*

2022

Learning Amazon's specifics for Cloud Computing through Amazon's *AWS Skill Builder* program.
- Management Console and IAM
- S3, DynamoDB and Amazon RDS
- EC2, ECS and Amazon Lambdas

AWS | IAM | S3 | EC2 | Lambda

SKILLS

Java

SQL

Powershell

Spark (java)

ELK

HTML

Javascript

Tensorflow/Keras

Map-Reduce

Linux shell

NoSQL (mongoDB)

Spring framework

CSS

Win32 (low level API)

Spark (scala)

Py-spark

Python

Delphi

GOlang

Flutter/dart

Training | *Machine Learning* cnrs coursera G

2022
- I followed french CNRS's FIDLE training about Deep Learning.
- I completed Google's course curriculum for Tensorflow Developpers (mostly Keras).
- I passed Google's "Tensorflow developper" certification

python | tensorflow | Keras | DNN | RNN | VAE

Senior dev | *Desktop + web* MAIF

2018-2021
The main application on 10,000+ end-users desktops was a proprietary eclipse RCP application.
Re-organize its maintainance in an agile manner to reduce the MTTR from 3 months to under 1 day.
Then replace it with a customized standard web browser. This entails
- Maintenance of the legacy Eclipse RCP+EMF application
- Dev of React.js frontend
- Dev of spring-boot / spring-data RESTful microservices backend over mongoDB
- Dev of various executables in GoLang
- Dev of a Firefox webextension
- Some MSWindows-native dev (powershell and C#)

Java | spring | react.js | mongoDB | C# | win32 | powershell | Go | ELK | docker | Firefox webext | Eclipse RCP | Scrum

Senior Dev | *Big Data* MAIF

2016-2018
Design and setup the enterprise's datalake : on-premice 70+ worker hadoop cluster + industrialize data ingest + prototype AI use cases As part of a multi-field group of experts.
- Developed a Domain-Driven back-office application based on Eclipse EMF + spring-boot for managing both data structures to be ingested and ingest processes and schedules.
- Developed a framework to allow dev of ingest processes based on Apache Hive and Apache Spark
- Developed ingest processes using apache Spark
- Developped data preparation programs with Apache Spark
- PoC'ed "Machine Learning as a service"

Java | scala | python | spark | map-reduce | hortonworks | eclipse EMF

Senior Dev | *Elasticsearch* MAIF

2016
Design and setup the enterprise's ES cluster and near real-time data indexing
- Developed a backoffice application based on eclipse Sirius to model data.
- Developped java component to read data from Oracle, JMS and Kafka and to upload data to Elasticsearch.
- Developped data indexing automated from models of incoming and indexed data structures.

Elasticsearch | Java | Eclipse EMF + Sirius | JMS | Kafka | Oracle

Senior dev | *Software engineering* MAIF

2011-2015

Design and setup the enterprise's engineering tool suite for managing 1,000+ apps w/ 35,000+ components artifacts with their versions and their deployment.

• Developped eclipse EMF + CDO application for collaborative backoffice editing of "configurations" of the system (versions for every component)
• UI is an eclipse RCP with eclipse Forms
• API provided through RESTful APIs hosted in spring app / tomcat

Java | Eclipse RCP + EMF | Eclipse CDO | mySQL DB | Elasticsearch | Sonatype Nexus | REST | Tomcat

Expert | *Win32 dev* MAIF

2011

Problem : 7,000+ users encountering instability and crashes of their main application.
Fix : Divide the number of crashes by 10 through isolation of embedded MS WebBrowser and Adobe Acrobat Reader components in separate multiple processes.

• Multi-process architecture
• Written a framework for manipulating remote processes through java calls.

COM/DCOM | Win32 | Delphi | Java

Consultant | *Redesign core legacy software* MAIF

2010-2011

As part of a multi-expert team, propose then develop the target architecture, framework and engineering for replacing the legacy COBOL/Tuxedo/Delphi P&C core business.

• Proposed SOA architecture
• Prototyped java frameworks for UI, services routing and orchestration, data access
• Addressed security and performance
• Setup Source Versionning (SVN) and automated Continuous Integration

Java | Spring | XML+XSD+WSDL | RichFaces | maven | Ruby /Oracle | SVN | Hudson(Jenkins)

Senior Dev + Project manager | *Unifying UIs on the desktop* MAIF

2006-2009

Context : 6,000+ users had worked with a legacy single fullscreen delphi app desktop for years.
Goal : Mitigate the multiplication of applications on the desktop (wether native, web, proprietary or in-house : CRM, software telephony, BPM, partner apps...)
Means : develop an innovative « super browser » that can host both native and web apps into a single window, letting apps share a context.

• The core application is developped in Eclipse RCP
• JNI and advanced win32 techniques used to embedded native apps into eclipse views/editors
• Did Adaptations onto legacy applications (especially Delphi software)

Java | OSGi | Eclipse RCP | VC++ | Win32 | Delphi | C# | Cruise Control | SVN | Spring framework | LDAP

Head of Technology | *SmartJog.com* SmartJog

2002-2006

Context : SmartJog was a startup that raised 12M€ in 3 rounds for digitalizing the market of media assets through secure file transfer via satellyte.

Clients : Major film studios (Paramount, Sony, Walt Disney, 20th century Fox...) and TV channels across the world (BBC, TF1, Canal+, ZDF, CCTV...).

My mission : Responsible for the software dev team - 8 members.

- Report to the CEO
- Define strategies and directions
- Direct relations with partner CTOs for technical integration
- Recruit and manage devs and ops
- Architect and tech lead
- Monitor technology development

Achievements : Built a successful, innovative web-based secure platform that let

- Major studios upload media assets and manage their catalogue online
- TV Channels order videos through satellyte and screen them in the browser

Java | JSP | XML+XSLT | EJB 3 | Hibernate | Oracle + intermedia then postgresql | CVS | WebServices /IBM WebSphere then tomcat | Eclipse RCP | LDAP

Developper | *Unilog / CGI* CGI

2001-2002

Context : Unilog was a french leading Consultancy company - since then acquired by CGI.

Clients : Bank, insurance, pharmceuticals, telecom.

My mission : Developper then lead developper on various projects.

- Design and develop intranet and web portals
- Design create and maintain relational DB models.
- Implement documentary search engines
- Setup content management systems
- Monitor technology development

Java | JSP | XML+XSLT | servlet | Oracle | CVS | Vignette | ATG Dynamo | Documentum WebPublisher | IBM WebSphere | Weblogic | Eclipse RCP | Swing | Ant