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Applied Category Theory <act2019school@gmail.com>

Application to Applied Category Theory 2019 School

1 message

Piotr Paradziński <piotr.paradzinski@gmail.com>   Wed, Jan 30, 2019 at 2:46 PM
To: act2019school@gmail.com

Hello

I am a software developer, fascinated by abstractions from Category Theory. I would love to work under the guidance of Bartosz Milewski o Traversal optics.

Order of project preference
* Traversal optics and profunctors
* Toward a mathematical foundation for autopoiesis
* Complexity classes, computation, and Turing categories
* Partial evaluations, the bar construction, and second-order stochastic dominance
* Simplifying quantum circuits using the ZX-calculus
* Formal and experimental methods to reason about dialogue and discourse using categorical models of vector spaces

My commitment to coming to Oxford
I am willing to take a vacation in my day job and go to Oxford. I would appreciate help with accommodation if there is such option. I live in Poland.

Relevant background in Category Theory
* Translated from paper Notions of computations as monoids by laws for Strong Profunctor into Scala.
PR to Scalaz https://github.com/scalaz/scalaz/pull/2028
PR to Cats is pending as it breaks binary compatibility
* Translated Day convolution from Haskell into Scala.
PR to Scalaz was accepted: https://github.com/scalaz/scalaz/pull/2020
* I am the author of https://github.com/lemastero/scala_typeclassopedia
Wiki with descriptions of abstractions from Category Theory and Abstract Algebra translated into Scala. Mentioned in Scala Times Issue 256 https://scalatimes.com/42ac487cd5.

I did not have the opportunity to start Ph.D. but who knows, what future will bring :)

Best regards
Piotr

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2 attachments

📄 **CV_Piotr_Paradzinski.pdf**
132K

📄 **Application Applied Category Theory 2019 School.pdf**

80K

CV - Piotr Paradziński

Personal information

Telephone	(+48) 696 704 227
E-mail	piotr.paradzinski@gmail.com
Date of birth	27 March 1981

Work Experience

since 04.2018   Scala Developer   Scalac
- design and implementation of big data solutions: (**DynamoDB, Amazon EC2, Amazon S3, Google Cloud Storage, Aerospike, Kafka, Prometheus, Grafana, Docker, Scala, ScalaTest, Cats, Scalaz, Git, IntelliJ IDEA**)
- maintenance and implementation of systems for gathering and presenting large data sets (**Scala, Akka, Akka-HTTP, Kafka, Slick, ScalaTest, Cats, PostgreSQL, Git,** IntelliJ IDEA)

since 08.2016   Scala Developer   Datarino Sp z o.o.
- design and implementation of ETL system to process big data: (**Scala, Kafka-Streams, Kafka, Slick, ScalaTest, Cats, PostgreSQL, Git, IntelliJ IDEA**)
- maintenance and implementation of systems for gathering and presenting large data sets (**Scala, Akka, Akka-HTTP, Kafka, Slick, ScalaTest, Cats, PostgreSQL, Git,** IntelliJ IDEA)

10.2015 - 08-2016   Scala Developer   BLStream
- design and implementation of back end for mobile application: (**Scala, SBT, Spray.IO/Akka HTTP, Typesafe Config, Slick, ScalaTest, ScalaStyle, WartRemover, Cats, PostgreSQL, Swagger UI, Git,** IntelliJ IDEA)
- implementation, editing XML for insurance project (**Java**, XML, OSGi, JUnit3, Eclipse EMF)
- maintenance and implementation mobile IoT app on Android in Scala (**Scala,** scala.rx, sbt android plugin, **Git**, Android Studio)
- logs analysis of a system deployed on Amazon Web Services (AWS) (**SBT, Scala**, **PostgreSQL, Docker**)
- organize knowledge sharing (**Scala, ScataTest**)
- small improvements in internal project (Clojure, Lein, LightTable)

05.2012 - 09.2015   **Team Leader**   Comarch S.A.
- implementation, maintenance, deployment, configure CI of loyalty management system (Java EE)
- splitting development work, ensuring code quality, post-deployment support, recruitment of new developers, requesting and coordinating deliveries of IT equipment for employees, communication with clients, coordinating work with QA, preparing estimates, reporting to management, supporting knowledge sharing

10.2012 - 04.2012   **Owner**   PIOTR PARADZIŃSKI
- conduct workshop "Eclipse SWT and JFace"
- design, implementation of accounting and reporting modules for online shop, using TDD
- development of distributed system for public administration (**Erlang**, Flex, Java)
- acquire new clients, analysis, design, creating POC (Grails), maintenance of online shop in PHP

03.2008 - 10.2012   Programmer   Betacom
- implementation of system for transport industry (Java EE), configure CI (Hudson, Findbugs, PMD:CPD), automate build and deployment, database installation, write documentation, design components, writing scripts for maintenance, logs processing

11.2006 - 02.2008   Junior Programmer   3W-Studio
- maintenance and extension of multimedia web store (Java EE)
- implementation of reporting system for web store

07.2006 – 10.2006   Junior Programmer UHC Sp. z o.o.
- maintenance of health care system (Perl, JavaScript, HTML)

Education

2001 - 2007   Katolicki Uniwersytet Lubelski - Mathematics with elements of Computer Science
2000 - 2006   Katolicki Uniwersytet Lubelski - Economy

Courses & certifications

2018 Advanced Functional Programming - John De Goes - 2 days
2016 Cloudera Spark Training - 3 days
2016 Cassandra - 1 day
2010 Sun Certified Java Programmer (CX-310-065)

Languages   Polish (native speaker), English (fluent)

Open Source / Public activity

My Github: https://github.com/lemastero
My profile in LinkedIn   http://www.linkedin.com/in/piotrparadzinski
My Contribution to Wiki   http://pl.wikipedia.org/wiki/Specjalna:Wk%C5%82ad/PiotrParadzinski
Lublin Java User Group (**co founder & ex leader**) https://groups.google.com/forum/#!forum/lublin-jug

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