

David LeBlanc | Senior Software Developer

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Motivated, enthusiastic senior software developer and leader with experience spearheading complex distributed systems and large-scale development for startups and large clients alike. Diverse technical capabilities include functional programming, large-scale systems design, performance optimization, build and deployment management, cloud and container based development, testing strategy/TDD, OOP, and Agile practices.

Proven ability to modernize monolithic legacy systems into lean and adaptable products using lightweight approaches that maximize developer flow and productivity while minimizing project risk. Seeking primarily remote work with open-minded teams working on challenging projects using Agile methods.

- Expert Java, Scala, and Kotlin developer, long-time Python developer, with a deep knowledge of each language's strengths, weaknesses, libraries, idioms, and best practices.
- Deep Linux knowledge, including system-level debugging, profiling and tuning knowledge.
- Proven ability to architect and evolve high-scale, high-volume distributed applications.
- Broad experience in using modern approaches to achieve efficient and safe parallelism and concurrency
- Extensive Agile experience, with a focus on developer mentoring and TDD.
- Skilled at cloud and container based development including Amazon AWS, GKE, Docker, and Kubernetes.

EXPERIENCE

Various

August 2018 - Present

- Architectural and high-level consulting role at an unnamed stealth startup - mostly focussing on high application design, CI/CD workflow, build optimization, and deployment approach.
- Providing support and ongoing maintenance for a couple former clients.
- Personal skills improvement: dedicating substantial time to diving deep into Kubernetes education. Currently pursuing the Kubernetes Developer (CKAD) and Admin (CKA) training and certifications.

AppDetex LLC (contract)

Nov 2016 - July 2018

- Hired in a full-stack development role to improve and modernize the AppDetex Fly9 Registrar platform that AppDetex had purchased the IP rights to.
- Provided architectural support, developed core features, provided extensive unit and functional testing coverage, and led system simplification, modernization, and conversion to Kotlin.
- Leveraged a container-centric (Docker) approach to modernize back-end and separated services into independent containers. Back-end was JVM-based using Java, Kotlin, and Scala.
- Contributed to front-end development using AngularJS.

AskPal LLC (contract)

Sept 2016 - Dec 2016

- Provided consulting and development services to a startup team with a focus on backend development work with a stack based on Kotlin with a Spring backend (Boot, MVC, Data) and a RethinkDB database.

Afilias Inc (subcontracted through Fly9)

Oct 2014 - Oct 2016

- Lead architect and core developer for the core registrar backend - using a microservices-oriented approach with modern technologies: Spring Boot, Spring Security, Java 8+, RabbitMQ, PostgreSQL, etc.
- Mentored and guided the team in the effective use of unit and functional testing approaches.
- Built out the CI and CD pipelines, leveraging Docker.
- Integrated with the Fly9 backend via the RabbitMQ message broker.

Fly9 LLC (contract)

Oct 2013 - June 2017

- Contracted to develop and support Domain Name Management systems and tools with a focus on developing a modern REST API. Work included microservices in Play 2/Scala, Java, Akka Actors, Spring, PostgreSQL, and OSGi.
- Introduced solid testing approaches using ScalaTest and Cucumber.
- Initiated migration to a container-driven service based model using Docker and Docker Cloud.
- Leveraged custom Scala DSLs and JAX-RS to develop secure REST APIs in an elegant and concise manner.
- Developed CI/CD strategy using Docker, Tutum, and Circle CI to stabilize builds and improve deployment predictability.
- Designed authorization and authentication with Spring Security and Shiro, including JSON Web Tokens and OAuth 2.

VIVO Systems (contract)

Jan 2012 - June 2013

- Collaborated with a small and talented team to develop a next-generation replacement of a high-performance message transport service that handled millions of messages per month for a large financial client build in Java and Scala, Spring, MongoDB, OSGi, and local and remote Akka actors.
- Contributed to product development and optimization from database and memory issues to high-level architecture design. Resolved critical performance and throughput issues, and implemented a novel compression scheme to significantly reduce load and DB storage requirements.
- Replaced a Spring Integration-based workflow with an approach based on Akka Actors, which improved readability, performance, and memory utilization due to more natural concurrency-related constructs.

Pulse Energy

July 2010 - Aug 2011

- Contributed to full-stack development including backend supporting services built in Java, Scala, and Python, front-end work using JavaScript, HTML/CSS, and Flex, and external service integrations.
- Led build of the time series compression, archival, and querying service, a core product component. Leveraged Amazon EC2 and S3 infrastructure, messaging services, and scientific programming libraries.

Gale Cengage e-Learning (contract)

Feb 2010 - June 2010

- Team lead and agile coach to enable the rapid delivery of an e-Learning product.

IMP Solutions (Oct 2007 - Oct 2009)

- Spearheaded the development of a next-generation rich webapp (FMAS) used in the maintenance processes of the Canada-wide Cormorant Search and Rescue Helicopter (CSH) Fleet.
- Working with stakeholders to define product vision and created mockups and prototypes to refine ideas.
- Introduced new concepts and approaches including testing philosophy/TDD, Scrum, and dependency injection.

Norex.ca (Nov - Dec 2009): Worked on a rich web-based time tracking application.

Norwegian Cruise Lines (2006): Web backend development.

Abridean Inc. (2003-2005): Provisioning and Identity Management platform development.

SKILLS

Languages: Java, Scala, Kotlin, Python, JavaScript [rusty in Ruby, C and C++]. HTML and CSS.

Tools: Spring ecosystem (Boot, Data, MVC, etc), Akka, Rx, AngularJS, Amazon AWS, Google Compute Engine (GCE), Google Kubernetes Engine (GKE), Kubernetes, Docker (Cloud), Hibernate, JPA, RabbitMQ, Play 2 Framework, Qt, JUnit, ScalaTest, ScalaCheck, Cucumber, Git, Maven, Gradle, Sbt, Gatling.

Database: PostgreSQL, RethinkDB, MongoDB, MySQL, Redis, Oracle, S3, SQL Server.

EDUCATION: BCSC, Computer Science from Dalhousie University.