

Carlton Schuyler

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Summary

Lead Developer and Coding Architect: Web apps with Java, Kotlin and Spring; Clojure; text/data wrangling with Linux and Python; Data-centric systems with RDBMSs (PostgreSQL, MySQL SQL Server, others), Cassandra, Redis; Event-driven applications with Kafka.

Platform Engineer: Cloud DevOps, Infrastructure as Code, Github, Kubernetes, AWS, CI/CD Pipelines, Monitoring, Dashboards.

Course Author, mentor, and Educator: I write and deliver interactive, hands-on courses in software development (Spring, Java), process (Test-Driven Development), design and architecture (Layered Architecture, Domain-Driven Design).

My top technical extracurricular interests:

- * Information Graphics and Visualization.
- * Machine Learning, Data Science, Information Retrieval.
- * Applications with unstructured text, Natural Language Processing, Semantic Networks, Ontologies.

I speak fluent Spanish and French, and have working knowledge of German, Portuguese, Russian, and Hungarian.

Experience

Staff Software Engineer, Solutions Architect, and Course Author

Broadcom (formerly VMware, formerly Pivotal)

Jun 2018 - Jan 2024 (5 years 8 months)

Software Engineer: Designed, wrote and delivered custom software solutions in complex environments. Technology stacks included JVM (Java, Kotlin, Spring), Golang, mobile apps (iOS/Android), Javascript, Typescript, Python, C#. Focused on backend and data/text-oriented aspects (PostgreSQL, Cassandra, Redis, Elasticsearch, Lucene).

Operations and DevOps practitioner: Wrote and maintained pipelines as code (Github Actions, the Atlassian toolchain, AWS CDK); CI/CD; deployment to the cloud (Kubernetes, AWS, VMware Tanzu Application Service (Cloud Foundry)).

Software Course Author: I wrote online, interactive self-paced courses for Spring Academy - the official home of Spring self-paced learning. One of the courses I'm proud to have be a co-creator is Building a REST API with Spring Boot: <https://spring.academy/courses/building-a-rest-api-with-spring-boot>

In-person Instructor: Developed and delivered in-person software architecture and development courses (e.g, Cloud Native Development and Architecture, Domain Driven Design, Agile Practices). Courses are highly interactive and workshop-oriented. For example: <https://tanzu.vmware.com/developer/learningpaths/cloud-native-development-in-practice/>

Software Process Enablement: Engaged with customers to deploy cloud native software of higher quality to production, faster. Examples:

* Developed a reference architecture and process for teams in an accelerator group within a large international consultancy, to minimize the time from prototypes to production.

* Assisted an accelerator consultancy in Brazil with re-architecting and deploying a network hardware management systems in the cloud.

Lead Developer

Thoughtworks

Sep 2017 - Jun 2018 (10 months)

Thoughtworks is a world-class software consultancy with a unique mission and culture, centered around Agile development practices and deep partnership with our clients. I had the opportunity to build rock-solid software, all on-site at customer locations.

I implemented Web Applications (Spring Boot), Backend Services and APIs (REST, distributed systems, queuing - including Kafka and AMQP), Java (5..8), Kotlin, Clojure, SQL, Data Pipelines, Distributed Systems, and employed DevOps as code to implement Continuous Integration and Deployment.

Senior Software Engineer

CA Technologies (CA acquired Rally Software July 2015) (CA subsequently acquired by Broadcom)

Jul 2010 - Aug 2017 (7 years 2 months)

CA's Agile Business Unit builds SaaS tools to boost productivity of agile teams. I mostly worked on the Rally Software product (also called CA Agile Central): <https://www.broadcom.com/products/software/value-stream-management/rally> - an Agile Lifecycle Management tool for software developers and other stakeholders, as a full-stack developer. Other roles included DevOps, deployment, support, technical leadership, mentoring, lobbying for innovation, and presenting.

Our process was based on Agile/Lean principles, focusing on applying them in a practical and creative manner. Among our practices : continuous deployment, SCRUM, pairing, TDD, and Kanban/Lean. We were also instrumental in the introduction of the SAFe Enterprise Agile at Scale framework.

Stack: Java, Spring, Solr, EclipseLink (JPA ORM), Scala, Clojure, Datomic, Ruby, Oracle RDBMS, Selenium.

Education

The Ohio State University

Master of Science - MS, Computer and Information Science, Computational Linguistics

I received the MS degree, and completed specialization courses in the Linguistics and Computer Science departments, concentrating on applied linguistics and NLP.

Tufts University

Bachelor of Science - BS, Mathematics and Computer Science

Dual degree in Computer Science and Mathematics. Semester abroad in Budapest Semesters in Mathematics (through St. Olaf University). Semester abroad doing research and FORTRAN programming at Argonne National Laboratory, Illinois. 4 years of Russian language. 1 year of French translation.

The International School of Brussels (ISB)

High School Diploma and International Baccalaureate certificates, IB: Mathematics, History, French

ISB is an international school in Brussels, Belgium, with a hybrid US/International curriculum. Teaching is mostly in English. I received International Baccalaureate certificates in Mathematics, History, and French.

Licenses & Certifications

 **Functional Programming Principles in Scala - Coursera Course Certificates**
MESYKCVG7ZXT

 **Functional Program Design in Scala - Coursera Course Certificates**
59XB46C9CAYH

 **Applied Data Science Program - MIT Professional Education**
40108845

Skills

React.js • Java • Spring Boot • Spring • Linux • Databases • Object-Oriented Programming (OOP)
• Cloud Computing • Kubernetes • CI