

DONALD SCHELLBERG
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PROFESSIONAL SUMMARY

Principal Engineer and Software Architect with 24+ years of hands-on experience building and scaling mission-critical distributed systems. Specialized in **Java/Spring, Node.js, Python, React, and TypeScript**, with deep expertise in **microservices, AWS, and Kubernetes orchestration**. Strong background in designing high-performance data layers using **SQL & NoSQL**. Architected and delivered distributed **microservices**. Available for **1099/C2C or W2** contracts where rapid impact, technical leadership, and architectural clarity are required.

TECHNICAL SKILLS

- Languages: Python, Java (EE/Spring), TypeScript/JavaScript, SQL, Groovy, C#, Bash, Go.
- Backend & Frameworks: Spring Framework, Node.js, Hibernate/JPA, Apache Camel, ActiveMQ, Kafka, AI Agents, RAG (Retrieval-Augmented Generation), Claude API.
- Cloud & DevOps: AWS Ecosystem, Docker, Kubernetes, Terraform, Ansible, CI/CD (GitLab, Jenkins, ADO).
- Frontend: React, Redux, GraphQL, Material UI, JSF, Struts.
- Databases: PostgreSQL, MySQL, Oracle, SQL Server, DynamoDB, MongoDB
- Testing & Specialized: JUnit, Jest, Selenium, GStreamer, MQTT/SparkplugB, IoT (ThingWorx).

PROFESSIONAL EXPERIENCE

Succinct Solutions | Remote | Principal Systems Architect & Founder | Jul 2025 - present

- Launched and established Succinct Solutions (succinctsolutions.net), an IT consulting firm delivering scalable cloud-native architectures and AI integrations for US enterprise clients.
- Engineered autonomous AI Agent frameworks using Python and Anthropic Claude
- Architected and deployed full-stack demonstration applications showcasing high-throughput reactive backends using Java and Spring WebFlux alongside cloud-native orchestration with Kubernetes and AWS Serverless topologies.
- Designed modular frontend interfaces using TypeScript, React, and React Redux, implementing scalable state-management practices tightly coupled with event-driven serverless APIs.
- Technologies: Python, Anthropic Claude (AI Agents/RAG), Java, Spring Boot (WebFlux), AWS (S3, DynamoDB, Lambda, API Gateway), Kubernetes, TypeScript, React, React Redux, Serverless Framework.

Wex Inc | Portland, Me | Sr. Software Engineer | Jul 2022 - Jun 2025

- Architected ISO 8583-compliant payment pathways, ensuring high-performance

- transaction routing and data integrity across global networks
- Devised a unified REST API abstraction layer, reducing integration complexity and accelerating client onboarding by 50%
- Implemented Reactive programming (Spring WebFlux) to eliminate I/O bottlenecks, increasing system throughput by 30% during peak spikes
- Migrated EC2/Fargate workloads to Kubernetes (EKS), improving fault tolerance and increasing processing throughput by 20%
- Refactored payment gateway core, reducing technical debt and cyclomatic complexity by 25% with zero downtime
- Automated multi-region AWS and EKS provisioning using Terraform to ensure secure, repeatable cloud-native infrastructure
- Technologies: Kubernetes, Docker, AWS, Java, Spring Framework, WebFlux, Terraform, JUnit, Cucumber

Rackspace | Windcrest, Tx | Sr. Software Engineer | Nov 2020 - Jul 2022

- Architected AWS Serverless applications using TypeScript, API Gateway, Lambda, and DynamoDB, delivering highly resilient cloud solutions
- Engineered IoT pipelines via MQTT (SparkplugB), leading a critical migration from AWS Greengrass V1 to V2 for improved fleet manageability
- Built a real-time video streaming POC using GStreamer (Python) and Amazon Kinesis Video Streams for cloud-side surveillance processing
- Led on-premise to Serverless migration, transforming Java monoliths into event-driven JavaScript architectures to reduce overhead and latency
- Designed modular UI architectures using React, Redux, and Material UI, integrating GraphQL and Prisma ORM for complex dataset visualization
- Developed cloud load-testing frameworks to identify and mitigate performance bottlenecks prior to production deployment
- Automated infrastructure provisioning via Serverless Framework and AWS CLI, standardizing ALBs, Hosted Zones, and secure data environments
- Technologies: TypeScript/Node.js, Python, AWS Serverless & IoT (Lambda, DynamoDB, Greengrass), React/Redux, GraphQL, MQTT (Sparkplug B), Prisma ORM, GStreamer, Jest, GitLab CI/CD

Perrone Robotics | Crozet, Va | Sr. Software Engineer(contractor) | May 2020 - Oct 2020

- Pioneered a deterministic regression testing framework for autonomous vehicle obstacle recognition, enabling 100% reproducible test results across complex sensor-fusion datasets
- Technologies Used: Java, Webots, DDS, Maven, Bash and Batch scripting, JUnit, Bitbucket pipelines

Hitachi Vantara | Herndon, VaA | Software Architect | Nov 2018 - Feb 2020

- Architected a distributed AWS governance engine to automate vulnerability remediation and cost optimization across enterprise environments
- Led monolith-to-Kubernetes (EKS) migration, enhancing system elasticity and reducing infrastructure overhead
- Developed a Common Data Platform to unify cloud data, eliminating silos and accelerating downstream application development
- Optimized Kafka and MySQL data pipelines, re-engineering partitioning and

schemas to resolve high-concurrency bottlenecks

- Directed an offshore engineering team (Pune), establishing CI/CD standards and architectural patterns to ensure scalability
- Modernized IaC workflows via Terraform, automating the deployment of microservices and Python-based Lambda functions
- Technologies: Java/Spring Boot, AWS (Lambda, SDK), Kafka, Docker & Kubernetes, Terraform, JPA/Hibernate, MySQL, Elasticsearch, REST microservices, React, Python, Ruby, Maven, Linux/Unix

Entech | Malvern, Pa | Sr. Software Engineer(contractor) | Apr 2017 - Oct 2018

- Implemented real-time data streaming to XML messaging conversion using Spring Boot and Java Lambdas
- Technologies: Java, Java Lambdas, SOAP, Maven, Tomcat

PTC (ThingWorx) | Exton , Pa | Sr. Software Engineer | Jun 2015 - Dec 2017

- Designed core Licensing and LDAP modules using Java and SOLID design patterns to improve platform modularity
- Boosted system throughput by 40% by resolving complex multi-threading and database bottlenecks across PostgreSQL, MySQL, and SQL Server
- Automated AWS CI/CD workflows via Ansible and Bash, reducing deployment latency for ThingWorx instances
- Containerized IoT environments using Docker to streamline QA and integration testing
- Led cross-functional incident response, resolving high-priority production issues through direct engineering-to-customer collaboration
- Technologies: Java (8+), PostgreSQL/MySQL/SQL Server, Cassandra, Docker, Ansible, JUnit, Gradle, WebSockets, LDAP/Active Directory, JavaScript, Bash, Unix/Linux

RDC | Wayne Pa | Sr. Software Engineer | Feb 2013 - Jun 2015

- Refactored legacy modules identified via static analysis, reducing technical debt by 40% and lowering production defect rates
- Implemented data ingestion engines using Apache Camel, Groovy, and ActiveMQ to automate unstructured data processing
- Devised a TDD-focused testing framework, mentoring the team to increase code coverage and overall software reliability
- Scaled platform capabilities by developing REST APIs and modernizing JSF/Struts frontends to meet stringent regulatory requirements
- Technologies: Java/Groovy, Apache Camel, ActiveMQ, JSF/Struts, Maven, Bash

Nokia/Navteq/Traffic.com | Malvern, Pa | Technical Lead | Jul 2008 - Dec 2012

- Technologies: Java, Apache Camel, Python, XPath, JUnit, JQuery, Oracle, Coherence, JavaScript, XSLT, Java Internationalization, Unix, AOP, OSGI,Maven, Bash, JBoss

Conde Nast | Wilmington De | Sr. Java Developer | Oct 2006 – Jul 2008

GMAC Mortgage/EDS | Horsham Pa | **Software Developer** | Jul 2002 – Oct 2006

EDUCATION AND CERTIFICATES

- BS in Computer Science with Minor in Mathematics, Florida State University
- BS in Chemistry, Ohio University
- AWS Certified Solutions Architect (2018)
- Udemy Agentic AI Bootcamp With LangGraph and Langchain(2026)
- Udemy Claude Code - The Practical Guide(2026)

ADDITIONAL

Languages: English and Spanish

Published Author(AI assisted): [Historical Novel Joseph Son of Jacob](#)

Sample Repository(Java, Spring Boot, Webflux): [Spring/Java/Kubernetes Demo](#)

Sample Repository(React Redux): [Web Frontend React Redux Demo](#)

Sample Repository(React Native): [Cell Phone\(Android/iPhone\)](#)

Sample Repository(Serverless/JavaScript Lambdas): [AWS Serverless Javascript](#)

Sample Repository(A CRUD Go App): [A CRUD App in GO](#)

Sample Repository(Serverless, TypeScript, React): [Serverless Repo](#)

LinkedIn Profile: [LinkedIn Profile](#)