

# Anthony Francis

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<https://github.com/franciscomancan/resume>

## - Qualifications -

Detail-oriented IT professional; experience and education to leverage a versatile skill set in software engineering and data integration. Solid experience in enterprise architecture, development, automation and analytic solutions

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## - Highlights -

- Integration, business logic, messaging, batches, rules engines, APIs
- Back-end web application development on distributed architectures and platforms
- Extensive sql and data support for analytics & business intelligence
- Front-end development of web/desktop/graphical user experiences
- Cloud and microservices orchestration for predictive modeling delivery

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## - Technical Exposure -

*Looking to challenge myself with new tricks, languages and tools as better solutions present themselves...*

Langs: Java (v1-17), Kotlin, Python, Groovy, Gosu, some Scala, Javascript, some C#/C++

Apps: Java Enterprise, Spring, AWS, Cloud, GCP, Kafka, JMS, REST, Solr, WS\*

Datastores: Design, scripting, optimization - MSSQL, Oracle, MySQL, Postgres, DynamoDB, MongoDB, Teradata, H2

SCM: IntelliJ, Eclipse, NetBeans, Rational, Visual Studio, Jupyter, TORA\Toad, CVS, SVN, Gradle, Ant, Maven, Nexus, BitBucket, Jira, Git, Jenkins, Ansible

Modeling: relational, object-relational, object-oriented, noSql, ORM, EER, UML, ODL

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## - Work History -

Software Engineer Lead, Synapse Labs (Contract) | 2.2024 - Current

- ML and AI solutions delivery startup (Analytics, MLOps, LLMs, AI..)
- Cloud infrastructure and integration (AWS, Airflow, Sagemaker/Spark, Glue, Lambda..)
- APIs and microservices (Python, Docker)
- Platform and build automation, provisioning (Terraform, Bitbucket)
- Analytics pipeline development and professional services

Software Engineer 5, Prime Therapeutics | 2.2022 – 2.2024

- Pharma big data batch processing/analytics (Kotlin, Spring Boot/Batch)
- Distributed/grid compute tasks and caching (Java 8/11, Ignite/Gridgain)
- Large-scale refactoring & GCP migration, pipelining/reconciliation with Kafka/BigQuery
- GitHub/Actions migration from BitBucket/Jenkins, Docker local, linux remote
- Reactive frontend and microservices (Vaadin, VMWare/Tanzu, some React.js)
- Datastore query/index/version/ETL/partition (MongoDB, Mssql, Teradata)
- Develop, POCs, refine, mentor, review, pairing and team development/hiring
- Acceptance, Integration and Unit testing (JUnit, Cucumber, Mockito, Mockk, Kotest)

Sr. Application Development Lead, Copperpoint Insurance Cos. | 7.2015 – 2.2022

- Implement/optimize/maintain policy platform & integrations (Java, Gosu, Sql, Git)
- Middleware, services, orchestration (Spring, CXF, Mule, AWS Lambda/Dynamo/S3)
- Analytics pipelining and derivation for predictive models (Jupyter, Python, Dataframes)
- Technical leadership role, POCs, estimates, interviewing, collaboration, mentoring, documentation, diagramming
- Architecture, production, release and triaging (Splunk, aggregation..)

Application Developer III, CSAA Insurance (AAA) | 7.2011 – 7.2015

- Integration developer, several integrations, clustered solution, claim/policy domain
- Financial integration lead, automated check lifecycle, general ledger, ETL
- Enterprise Integration Patterns (MQ), event-driven, rules engine, batching
- Guidewire insurance platform (Certified 6&7), SOA, Middleware
- Scrum master, team mentor, reviewer, SDLC, triaging
- Model Audit, documentation, best practices and socialization

Software Developer III, Quest Software (Dell) | 12.2009 – 7.2011

- Agent architecture, R&D, VM monitoring of Microsoft AD, Exchange, MSSQL
- Cross-platform & native (Java, LDAP, SMB, WMI, SNMP, IPC, Registry...)
- Review/debug/translate C++/C# implementation into platform-indie logic
- Development and management of the SCM and builds for the project (Ant, SVN)
- Debugging/test against virtual environments VMware ESXi (vSphere)

Lead Developer (startup), Concept Solutions LLC | 10.2008 – 11.2009

- Architect/develop web application services and view (Spring, Hibernate, Json, Hsqldb, Junit, Tomcat) for mobile Point-of-Sale system
- PDA/mobile client (J2ME, Midlet, CLDC)
- Debugging against the Windows CE 6 platform
- Administrative GUI (Javascript, Mochikit, Css, Ajax, izPack, Swt/jFace, python)

J2EE Development Consultant, Pearson Inc. | 3.2008 – 10.2008

- LMS Desktop application enhancement and maintenance (Swing)
- Jasper reporting (Axis, Hibernate, Jdbc, Postgres, Junit, Applet, Tomcat)
- Branching strategy for patched releases (SVN), version management
- Debugged/refactored/tested code for numerous fixes

Systems Development Consultant, Avnet Inc. | 10.2007 – 3.2008

- 4<sup>th</sup>-quarter implementation, financial/rebate data (FICO rules engine)
- Database debug and optimization (Oracle, partitions/procedures)
- Re-released CSV-based financial adjustment system (J2EE, zkToolkit)

- Released modifications on WebSphere container (IBM/Rational suite)

Development Consultant, Arizona State U. | 3.2007 – 10.2007

- University directory, architectural refactor, tier leakage, scalability issues (Hibernate, Servlet, Jsp, Velocity, Ldap)
- Web 2.0 and 'graceful degradation' (OO Javascript, DOM, CSS)
- Tagging/folksonomy engine, proof (Spring, REST, MySql)
- UI dev on the LAMP stack (Ajax, jQuery, Trimpah, Html, OO Php)
- State library/publication SOAP services (Axis, J2EE)
- Debugged/refactored/tested; Tomcat and WebSphere platforms

Software Engineer, KnowledgeNet/NETg/Thomson Inc. | 11.2004 – 3.2007

- B2B migration - file to database (J2EE, Oracle, RMI)
- Secure optical media (Javascript, ActionScript, Spring/Struts, Hibernate, Applet)
- Refactored for 508 standardization (Flash, velocity, JAWS reader)
- BI, statistics and ETL against the database (Sql, Python)
- Educational content indexing and searching (Lucene, ActiveMQ)
- Swing GUI, authoring and publishing (Swing, Jdbc, messaging)
- Distributed system communication (ActiveMQ, Spring, Oracle. Toplink)
- Large team, continuous integration (Tomcat, CVS, SVN, Maven, Linux, Localization...)

Various web and graphic design gigs | 9.2002 - 11.2004

- *Woodworkers Source* - ui/database dev (Php, MySql)
- *Bi-Weekly Mortgage Association* - animation (Actionscript, Adobe)
- *DKDG Inc.* - UI and search-engine optimization
- *BCRx Inc.* - animation (Css, Flash, Adobe)

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## - Education -

Professional Development

2023, GCP Architecture & Data Engineer Professional prep  
 2023, Company training with GCP and Confluent Kafka  
 2021, Mulesoft Anypoint Platform 4 Fundamentals - Training and assessment  
 2020, Scala and Spark for Big Data and ML (Udemy)  
 2020, OWASP standards and awareness (Udemy)  
 2019, Spring Professional - Training (Pivotal)  
 2019, CERT Secure Coding in Java - Certified (Carnegie Mellon University)  
 2015, Java SE 8 Programming Ed1 - Training (Oracle University)  
 2011, Insurance Suite 7 - Technical Certification (Guidewire)

B.S. in Computer Science - 2004, Fulton School of Engineering, Arizona State University,  
 focus on Software Engineering & Database Design/Implementation

Coursework: advanced databases, multimedia systems, data mining, distributed systems, networks, software engineering theses (both .NET and Java), embedded systems

Associate Credit, Scottsdale Community College, Arizona  
Diploma, Arcadia High School, Arizona