Keith Corbett

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Summary

Seeking a role as an engineering leader or solutions architect. Expert in developing and analyzing big data and AI across healthcare, finance, publishing, and telecommunications. Passionate about solving puzzles and bridging communication gaps between technical and non-technical audiences. Expertise and experience to assess pain points and identify solutions across data architecture and internal systems.

Skills

Google Cloud Platform | AWS | Microsoft Azure | Mac OS, Linux, Windows
Agile Scrum, Kanban, Scaled Agile (SAFe) | Atlassian JIRA, Confluence, Bamboo |Trello, Rally
Scala, Python, Java, JavaScript |C, C++, C#, Objective C | Clojure, Common Lisp, Prolog
DataBricks, Jupyter | IntelliJ IDEA, PyCharm, VS Code, Eclipse
PostgreSQL, BigQuery, SQL Server, Oracle, MySQL, Berkeley DB, Informix
OWL/RDF, R2RML, Protege, Stardog, SPARQL | XML, XSLT, HTML, SGML, Markdown
Drools, Jess, KnowledgeWorks, ANTLR4

Professional Experience

Staff Engineer / Tech Lead

dv01, a Fitch Solutions Company — New York, NY / Remote (2021-2024)

Led projects to enhance data pipeline cloud infrastructure, file ingestion, ETL/ELT, and metadata services using Google Cloud Platform, Spark, Scala, and Python.

- Designed/implemented MVP for ESG. Generated $200K+ revenue, supporting new business.
- Extended metadata services and entity resolution to link transaction data with public reference data.
- Supported data engineering development (DataBricks) and infrastructure (Cloud SQL, Kubernetes)
- Designed API Gateway for seamless integration of loosely coupled services.

Master Knowledge Engineer / Solutions Engineer

ReactiveCore Inc — New York, NY (2017-2020)

Consulted pre- and post-sales to implement data pipelines with business logic to meet financial and regulatory requirements. Created reactive AI systems using proprietary rules engine and Spark/HBase. Responsible for big data ingestion, cleaning, and transformation. Generated $1M in services revenue.

- Created high-volume healthcare applications for pharmacy and imaging claims.
- "Patient-360" views for healthcare applications to improve accuracy and compliance.
  - *Pharmaceuticals:* Streamlined prior authorizations using reactive rules.
  - *Veterans Affairs Admin. (VA):* Demonstrated $20M potential cost savings on opioid dispensing.
  - *Defense Logistics Agency (DLA):* Reconciled three SAP datasets using NLP and entity resolution.

Principal Technical Consultant

Ciklum USA LLC — New York, NY (2016-2017)

Led "Center of Excellence" to convert leads to short- and long-term out-sourcing clients.
- Presented to CTOs/VPs in IT at enterprise-scale companies.
- Worked with Ciklum CTO to support US Sales; wrote white papers and presentations for prospects.
- Global bank*:* Built POC for "smart piggy bank" using Raspberry Pi, Particle, and AWS (IoT).

Principal Software Engineer

Mphasis Inc — Princeton, NJ (2015-2016)

Collaborated with ontologists and subject experts (regulators) for a global bank on semantic models, knowledge graphs, and reasoning for fraud detection and compliance—KYC, AML, and FINRA.

- Developed data pipeline to ingest transaction data and create knowledge graphs.
- Implemented DSLs and knowledge base using Clojure, Prolog, OWL/RDF, and R2RML.
- Saved ~$200K through deferred hiring of a DevOps specialist.

Consultant

Plymouth Capital Management Advisors LLC — Rye Brook, NY (2015)

Assisted VC partners on tech investments; provided technical perspective to reduce risk.
- *Virtual storage startup:* Advised against investment; saved $2M+ for the fund.

Senior Software Consultant

Nevo Inc. — Cambridge, MA (2012-2014)
- *Verisk Health:* Renegotiated and extended the contract (see below); enlarged the US team.
- *Harvard University:* Solved reconciliation of subscription charges vs. perceived usage of journals/databases.

Senior Software Consultant

Clozure Associates — Somerville, MA (2008-2012)

- *Verisk Health:* US team lead and senior developer; continued later for Nevo Inc. (2010–2012)
  - Starting as a solo contractor, trained and mentored a remote team of 20 developers in Nepal.
  - Converted clinical rules and measures engine from legacy code to modern architecture. Eliminated need for Visio diagrams/coding instructions; easier maintenance, faster run/deploy*ment. Integrated* with microservices architecture; enabled external teams to incorporate measures engine.
- *Applaud Mobile:* Mobile app for non-profit group scheduling, directory, and announcements
  - "No-code" customizable solution based on Joomla and auto-generation of mobile app UI configuration and resources. Reduced time-to-market from weeks to days.
- *YoBetit:* Led a team of developers to create a blockchain wallet for offshore sports betting.

Manager of Database Technologies

m-Qube (Verisign acquisition) — Boston, MA (2004-2008)

Responsible for transaction logging and reconciliation to enable $5M revenue for premium SMS billing, accounts receivable from clients running text messaging/amounts to bill telecom clients.

- Improved customer satisfaction; reduced wait time for custom reporting.
- Managed Oracle DBAs, Business Objects reporting team, and ERWIN modeling lead.
- Created message tracking and reconciliation with billing reports for Finance and Operations.

Education

B.A. in English, Certificate in American Studies
Princeton University, Princeton, NJ

Continuing education in Computer Science and Information Systems:
U. Lowell, Lowell, MA; Coursera, Udemy, LinkedIn Learning

Projects | Achievements | Volunteering

- W3C: company representative for Harlequin and Bitstream
  - Tutorial, "SGML for Web Developers", Fourth World-Wide Web Conference (1994)
  - SGML Working Group: XML 1.0
  - XSL Working Group: DOM, CSS, XSLT
- Knowledge Graph Conference (2021–2024) and Knowledge Graph Certificate Program (2024)
- Music: guitar, singing, cabaret performance, collegiate a cappella
- Fluent: English; conversant: Spanish; US citizen