**Kevin J. Rice**

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**SUMMARY**

B.S. Computer Science (BS CS) software engineer / developer with 25+ years of highly technical client/server architecture, full life cycle, agile/TDD, primarily in Python, Perl, & C/C++.

**TECHNICAL SUMMARY**

PRIMARY LANGUAGES: Python (15 years), Perl (5 years), C (10 years)

ANCILLARY LANGUAGES: SQL / NoSQL, Java, C++, Cobol, SQL, Ada, Assembler, Scala

PLATFORMS: Linux, Windows, GCloud (Google Cloud), AWS, Mac, AIX, Solaris, Embedded

DATABASES: MongoDB (7 yrs), MySQL (6+ yrs), Postgres (7 yrs), BigQuery (1 yr), Oracle, Sybase, Informix, DB2, Cassandra, MS SQL Server, Memcache, Redis, etc.

NETWORKING: Ethernet, sockets, DHCP, TCP/IP, POP3, PPP, cabling, firewalls, security, load balancers, routers, NAT, internet protocols, authentication & authorization, SSL / TLS.

DEVELOPMENT TOOLS: Git, BitBucket Github Jenkins Anaconda Docker VSCode IntelliJ PyCharm JQuery CSS SonarCube Postman

OTHER SOFTWARE: GCloud, GCP, BigQuery, Airflow, Cloud Composer, Apache Spark, Django, Flask, Pytest, Graphite, FastAPI, OpenNMS, Splunk, Twisted, Nginx, Apache, F5 Load Balancers (NTPd, Robot Framework, WebWare for Python, LAMP, Mod\_Perl, BBThreads, Dreamweaver, Frontpage, MS Office, JMX, Awk, Korn and Bash Unix shell scripting, gnu make, sed, emacs, vi, Vax VMS DCL & VMS utilities, Norbert DOD, PGP, Roguewave, Lawson.

INDUSTRIES: Retail, Financials / Capital Markets, medical, Construction accounting, Credit, Consumer Electronics, Military, Education, Petrochemical, Insurance, Telecom, HR, Publishing.

APPLICATIONS: Backend dataflows, Timeseries/monitoring, REST, Financials (FINRA OATS FIX protocols), E-Commerce, micro-services, infrastructure, back-end web dev, internet security InfoSec, embedded real-time systems, consumer electronics, telecom, industrial control systems, turbomachinery, web-based recruiting, version control tools & processes, crypto.

**EXPANDED DETAILS**

* Standard resume with summary info: <http://justanyone.com/KevinJRiceResume.docx>
* Employment History: <http://justanyone.com/KevinJRiceEmploymentHistorySummary.docx>

**EDUCATION**B.S., Computer Science, University of Kansas, Lawrence, KS, 1992

**PROJECT EXPERIENCE:**

**Data Architect, Zoro / Grainger, Remote, 3/2021 to current**

* Data Engineering on ETL processes incl. Python architecture & dev of product data for online retail on Gcloud platform.
* Environment: GCloud, Airflow, BigQuery, GCP, Composer, Spark, MongoDB, Git, Docker, VSCode, MacOS, Python 3.6+

**Sr. Developer, Zipari, Brooklyn/Remote (Synergy Consulting) 7/2020 to 3/2021**

* Python arch / dev / maint. B2B & B2C Django app hosting medical insurance industry clients
* Environment: Python, Django, Postgres, Git, Docker, Pycharm, VSCode, Mac, Python 3.6.

**Sr. Developer, PNC Bank, Pitts./Remote (Indotronix, Consulting) 8/2019 to 7/2020 (1 yr)**

* Python backend dev Django automation. DevOps server provisioning in-house datacenters.
* Environment: Python, Django, MongoDB, MySQL, Git, Agile, VSCode, Python 3.6

**Sr. Software Engineer, Bank of America (Apex Consulting) 8/2018 to 8/2019 (1 yr)**

* Python-based architecture/development / maintenance on capital markets deal aggregation processes
* Environment: Custom Python DB, custom BofA toolsets (Quartz/QzDev) and databases (“Sandra”), Agile, Python 2.7 to Python3.7 conversion.

**Senior Software Engineer, Engine Group, Inc. 3/2018 to 8/2018 (6 months)**

* Python2.7 and Python3.7 lambda functions; business analysis & specifications, doc-writing; infrastructure & InfoSec / security analysis.
* Environment: AWS, AWS lambda, Route53, S3, EC2, diagnosis, some Bamboo, MySQL, NodeJS, Git, Mac/Brew configuration

**Principal Software Engineer, Sears Holdings, Inc. (Contract-to-Hire) 4/2012 to 2/18, 6 yrs**

* Python Devops arch/design/coding/maint of large-scale monitoring systems used corporation-wide;
* Architect and technical team lead for team of 8 developers
* Scalability: enhanced from gathering 1M to 15M metrics/minute incl. Enterprise-wide metrics collection, storage, display;
* Created new MongoDB (v. 2.4 to v.3.4+) data warehouse accessible via Django / Graphite.
* Sat on 25-person corporate infra architecture committee, incl. SHC migration to AWS;
* Environment: Linux, Python, MongoDB, Flask, Kafka, Git, Twisted, Nginx, Graphite, Ceres, OpenNMS, Splunk, Django, F5, Cassandra. Some Windows/Aix/Solaris.
* [ Contract consultant for 3 years, full-time employee 3 years ]

**Software Engineer, Nokia / Navteq Garmin (Consultant) 8/2011 to 4/2012, 9 months**

* Created Python libraries used by Robot Framework test scripts;
* Created complex QA automation - test suites exercising newly-developed code (Java JMX & others);
* Environment: Linux, Python, Perl, Win32 Python, Robot Testing Framework, JMX, svn.

**Lead Trade Support Analyst, Citadel Corporation 6/2010 to 8/2011, 1 year**

* Trading desk support operations role (handled 6% of the U.S. equities and options markets;
* Perl and Python development/design of trading desk automation incl. troubleshooting FIX protocol lines and backoffice systems & processes;
* Setup new FIX lines and certified new clients dataflow;
* Rewrote compliance FINRA OATS processing of equities flow;
* Built several internal websites (Python Django & mod\_perl) using Sybase;
* Environment: Linux, Python, Perl, Windows 7, Sybase, FIX, OATS, Django, ksh, bash, svn, capital markets, financials.

**Senior Software Engineer / Architect, Textura Corporation**, **2/2005 to 5/2010, 5 years**

* Employee #5 of now-publicly-listed 200+ employee construction industry corp doing B2B ASP / SAAS;
* Python architecture, design, coding of large portions of the main app in a small team, working closely with business analysts;
* Highly Agile weekly releases using TDD (test-driven development) unit and functional tests;
* Extensive use of SQLObject & SQLAlchemy ORMs (like Hibernate) connected to Postgres database, with hand-coding complex SQL queries when needed for optimization;
* Heavy OO design, development, incl. business analysis, coding, data conversion, and deployments;
* Fitnesse (functional) and Nose (unit) testing frameworks (similar to JUnit);
* Linux (Ubuntu and Redhat) system administration, documentation;
* Environment: Linux, Python, Postgres, Apache, SQLAlchemy, ACH payments, E-signing, automated legal docs, sysadmin, svn, RHEL, TDD Agile, Construction.

**Lead Application Developer, BankOne JP Morgan Chase, 4/2002 to 1/2005, 3 years**

* Architected / developed Capital Markets Risk financials data warehouse;
* Reports and dataflows went to primary users of CEO Jamie Dimon & JPMC Board of Directors;
* Technical team lead for 5 developers on project;
* Wrote 40,000 lines of Perl to scan 350+ file types & load data into Sybase (migrated to Oracle);
* Developed 2000+ lines of VBA & 3000+ lines of complex SQL to extract data into Excel reports;
* Wrote 2000+ lines Visual Studio .NET C# code for misc. support functions tying in other project;
* Extensive capital markets options & derivatives data handling of greeks data;
* Co-sponsored Bank’s MS .Net User Group; mentored;
* Put Linux/Perl open-source into Bank’s mainstream;
* Environment: Solaris, Windows, Apache mod\_perl, Win32 OLE, SiteMinder, Capital Markets financials.

**Senior Software Architect / Developer, Consultant
(Various Companies in Des Moines, Iowa and Chicago, Illinois) 5/1993 to 4/2002, 9 years**

* Created Single-Sign-On-enabled secure web sessions so UBS clients could buy bonds online;
* Created version control tools for Sears.com’s 140+ person dev team, eased a QA nightmare (circa 1999);
* Automated a stock exchange clearinghouse’s data entry process, reduced 2.5 headcounts;
* Discovered $250M savings for Sears Credit Card through improved credit scoring;
* Implemented IBM’s Net.Commerce, got Borders.com online faster w/ increased efficiency;
* Helped more college students afford loans w/ Student Loan app to show predicted loan payments;
* Created publisher’s magazine subscription website, vastly increased international subscriptions (CGI in C, Java, and even Cobol!);
* Created conversion programs to close down a pharma company after a merger;
* Coding, QA, documentation, and other technical project work at several other locations.
* Real-time embedded C PID controller for turbocompressor gas pipeline (2 yrs., fulltime)
* Sysadmin for defense contractor Logicon for Ft. Leavenworth War College BCTP worldwide, 1 yr.
* Environments: Perl, C, C++, Java, Cobol, Solaris, Windows, Linux, Oracle, Sybase, DB2, MySQL.

**OTHER:**

* Member, Chicago InfraGard InfoSec group since 2017
* Have traveled to (& eaten in) 22 countries and 46 US states.