KEVIN J. RICE

Software Engineer · 35+ Years · Python, Perl, C/C++

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SUMMARY

B.S. Computer Science (BS CS) software engineer / developer with 35+ years of highly technical agile app dev, devops, data engineering, and architecture work primarily in Python, Perl, & C/C++. Fully invested in Claude/AI dev cycles in planning, skill creation, architecture, and implementation using AI toolsets.

TECHNICAL SUMMARY

PRIMARY LANGUAGES Python (20+ years), Perl (5 years), C (10 years)

ANCILLARY LANGUAGES SQL / NoSQL, Java, C++, Cobol, SQL, Ada, Assembler, misc.

AI TOOLSETS Claude Codex Grok thru VS Code & Github Copilot for app dev work doing iterative planning, code gen, skills and instructions construction, optimization. Architecture work. Dark factories, ollama LLMs, AGE pg_vector pg_textsearch for various RAG apps.

PLATFORMS Linux Win32 AWS GCloud Mac AIX Bash Zsh Powershell Solaris Embedded

DATABASES MongoDB (7 yrs), Postgres (7 yrs), Snowflake (1 yr), BigQuery (1 yr), many yrs of: Oracle Sybase MySQL Informix SQLite DB2 Cassandra SQLServer Memcache Redis etc.

NETWORKING Firewalls LoadBalancers Routers NAT sockets, DHCP, TCP/IP, POP3, PPP, cabling, security, authentication & authorization, SSL / TLS.

DEV TOOLS Copilot Git Github GitLab BitBucket Jenkins Docker VSCode Sonar Postman

OTHER SOFTWARE GCP GCloud AWS: S3 EC2 Lambda ECS BigQuery Airflow, Cloud Composer PySpark Django FastAPI Flask Pytest Graphite OpenNMS Splunk Twisted Nginx Apache F5 Load Balancers, Robot, LAMP Mod_Perl MS Office JMX Awk Korn Bash Zsh Unix shells sed emacs vi Vax VMS DCL Norbert PGP Lawson.

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

APPLICATIONS ETL Timeseries/monitoring, REST, Financials, E-Commerce, micro-services, infrastructure, web dev, InfoSec, embedded real-time, banking, consumer electronics, telecom, industrial control systems, turbomachinery, recruiting, version control tools & processes, crypto.

Full employment history: justanyone.com/KevinJRiceEmploymentHistorySummary.docx

EDUCATION

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

PROJECT EXPERIENCE

Co-Founder [Stealth Startup], remote — 8/2026 to current

- App development on a stealth startup doing RAG database and Hermes work.

  Environment: *Python, JS CodeGen on Claude and GPT (Fable/Astra typically), docker, infosec, MCP enabled, Hermes, Ollama, pg_vector pg_textsearch AGE graphdb work.*

Sr. Software Engineer Bank of America (Apex Consulting), onsite — 2/2026 to 8/2026

- Python InfoSec on internal email malware detection/triage adding features, security scan remediation. Some by-hand, mostly code-gen Copilot.
- Migration Django → Fastapi of app, tests, mentored AI to team, created skills/instructions for several projects.
- Extensive multi-plan code-gen and implementation.

  Environment: *Python dev/gen w/ Github Copilot with Opus/Sonnet/etc. Pycharm and VSCode for Django and FastAPI, with behave and pytest-BDD. Bitbucket, many tools.*

Sr. Software Engineer Cognizant, Inc., Remote 12/2021 to 2/2026

Software engineering in Python on various projects:

- Duke Energy — workflow automation using AWS lambdas in Python (POC/MVP)
- Capital One — ETL Python AWS lambda work supporting SWIFT/Fedwire payments processing automation (ISO 20022 migration)
- Chewy Brands — quick-win data engineering maintenance in AWS Snowflake
- UK National Health Service — migration Py 2.6 to 3.6 across a 400k-line codebase
- Macy's — Retail gift registry migration mainframe to AWS, quick-win.

Environment: *Github Copilot, AWS, Linux, Snowflake, REST APIs, Ansible, VS Code, Git (Github, Gitlab), Jenkins Docker, Python 2.6, 3.6 to Python 3.12, MS Powershell*

Data Architect Zoro / Grainger, Remote 3/2021 to 12/2021

- 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, REST API's, Postgres, Git, Docker, Pycharm, VSCode, Mac*

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 arch/dev/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 Media 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 2/2018, 6 yrs

- Python Devops: team lead/arch/coding/maint monitoring all 12,000 Sears servers;
- 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;
- Wrote/Arch QA automation suites for 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, dataflows went to primary users of CEO Jamie Dimon & JPMC Board of Directors, wrote 40,000 lines of Perl that did ETL of 350+ files into Sybase (migrated to Oracle);
- Technical team on several teams (2 to 5 developers at various places);
- Developed 2000+ lines of VBA & 3000+ lines of complex SQL to extract data into Excel;
- Wrote 2000+ lines Visual Studio .NET C# code;
- 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, Des Moines IA and Chicago IL 5/1993 to 4/2002, 9 years

- Created Single-Sign-On-enabled website so UBS clients could buy bonds online;
- Wrote version-controls at Sears.com for 140+ person team easing QA nightmare (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 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!);
- Data migration for mail-order pharmacy in Cognos PowerHouse 4GL, Cobol, and C/C++.
- 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 (Ft. Leavenworth War College), worldwide, 1 yr.

Environment: *Perl, C, C++, Java, Cobol, Solaris, Windows, Linux, Oracle, Sybase, DB2, MySQL.*

OTHER

- Member, Chicago InfraGard InfoSec group since 2017 (https://Infragard.fbi.gov)
- Have traveled to (& eaten in) 24 countries and 46 US states.
- Github: https://github.com/justanyone
- Stack Overflow: https://stackoverflow.com/users/977162/kevin-j-rice
- Personal Website: https://justanyone.com (since May, 1999)