

Jerome J. Finn

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portfolio: <https://jerryfinn.github.io>

Skills

- IT Solutions Architect, Project Manager, Software Engineer
- C, C++, Perl, Korn Shell, VBA, SQL, R, Python
- Linux, UNIX, Windows
- Proposal Development: RFP/RFI Responses, SOWs, TCO Reports, Project Plans
- Bilingual: English, Spanish

University Education

Masters in Computer Science, Analytics-Data Science Specialization
University of Illinois Urbana Champaign

Bachelor of Business Administration, Management Information Systems
Minor in Computer Science: 37 credits earned in CS and math
University of Wisconsin-Milwaukee

Verified Online Certifications from Coursera and Edx

- IBM AI Engineering Certificates: Neural Networks with Pytorch, Keras, and Tensorflow – Coursera
- Deep Learning: Convolutional Neural Network (CNN), Recurrent Neural Network (RNN), Tensorflow – Coursera
- IBM Applied Data Science Specialization with Python: Machine Learning (Scikit-Learn), K-means, Regression with Regularization, Geospatial Analysis with GeoPandas and Folium – Coursera
- Applied Data Science with Python: Machine Learning (Scikit-Learn), including K-nn, K-means, Regression with Regularization, Support Vector Machine, Gradient Boosting Machine, and Random Forest; Network Analysis (networkx); Text Mining (nltk), Visualization (Matplotlib), and Data Analysis tools (Pandas, Numpy, SciPy) – University of Michigan through Coursera
- Mathematics for Machine Learning: Principal Component Analysis (PCA), Linear Algebra, Multivariable Calculus implemented with Python – Imperial College London through Coursera
- Data Science Specialization with R: Data Science Toolkit, R Programming, Data Analysis and Visualization, Statistical Inference, Regression Models, Machine Learning – Johns Hopkins University through Coursera
- The Analytics Edge – Regression, Text Analytics, Clustering, and Optimization Algorithms Implemented in R – MITx, through Edx
- Foundations of Data Analysis – R Programming and Applied Statistics – UTAustinX, University of Texas System through Edx
- Excel for Data Analysis and Visualization – Microsoft through Edx

Professional Training Certificates

- Certificate in Oracle Administration, PL/SQL Programming, Oracle Form and Reports – Escuela Profesional de Discovery Formación
- Certificate in Java Programming – Escuela Profesional de Discovery Formación

Community College Certifications

Certificates in Computer Networking and Telecommunication – LAN (TCP/IP) design and implementation, administration of WAN technology (routers, DSU/CSU and T1/T3 multiplexers, X.25 and Frame Relay) – Waukesha County Technical College

Representative Experience

Oracle – Senior Software Developer – January 2022 to Present

- Development of RESTful APIs for cloud based services hosted on Oracle Cloud Infrastructure (OCI) using Python Django, and Swagger/FastAPI web frameworks
- Development using Celery distributed task queue to implement concurrency, RabbitMQ for interprocess communication, and Oracle RDBMS and PostgreSQL for data storage

Citibank – IT Analyst and Application Development – Chicago, IL – September 2017 to November 2020

- Worked on POC migration of credit scoring application from AIX to in-house cloud, managed by Cloudera software. Rewrote application from C++ and UNIX shell to Scala and SparkSQL
- Programming in C/C++, Perl, UNIX shell in AIX environment
- Authored business analyst deliverables, which formulate and define scope and objectives of core projects

BBVA Data & Analytics – Data Science Blogger – Madrid, Spain – December 2015 to June 2016

- Wrote data science articles for the technical blog of the data analytics subsidiary of Spain's second-largest bank

IBM – Technical Solutions Architect – Madrid, Spain – February 2006 to November 2014

- Analyzed clients' C/C++ software for dependencies or extended features of competitor's UNIX and determined the effort to port applications to IBM AIX and Linux, and IBM Cloud.
- Analyzed code mainly programmed in C/C++, Perl, UNIX shell and SQL
- Extensive experience analyzing UNIX standards, C/C++ compiler variations, and networking

Sector7 Inc. – Data Migration Analyst – Madrid, Spain – May 2005 to November 2005

- Worked as an analyst on a migration for a legacy Oracle RDB database hosted on HP OpenVMS to Oracle's flagship RDBMS product hosted on Solaris

Houston Casualty Company Europe – Project Manager – Madrid, Spain – September 2003 to December 2004

- ERP Implementation for a Houston-based company in a Spanish subsidiary
- Supervised the activities of the Madrid-based team, business analysis and end-users, with the London-based team, programming and technical support
- Defined project milestones, identified critical path tasks, oversaw change control and managed project risk factors

Additional Experience – Software Engineer and Migration Analyst

- Migration of legacy systems (OpenVMS, MPE/ix) to UNIX/Linux/Windows servers
- Migration of code bases in C/C++, Perl, SQL, Java, Pascal, DBL and FORTRAN to modern platforms
- Scripting in UNIX shell and Windows' batch files
- Analyzed clients' software stack for POSIX compliance, operating system dependencies, and use of interoperable network protocols