

# Alan Davies

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## Summary

I'm looking for an opportunity where I can leverage my unique technical and interpersonal skills to help an organization maximize the value of its technical investment. I'm an experienced software engineer, data architect and manager with excellent leadership and interpersonal skills as well as significant experience with client engagement. I'm a coder, designer, problem-solver, teacher, mentor, consultant, evangelist and leader; an incurably curious perfectionist who's just as much at home leading design discussions, evangelizing technology, hiring/mentoring/managing teams, churning out code, chasing down bugs or refining low-level algorithms.

## Skills/Experience

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| Technical Disciplines         | On-prem to cloud migrations, data structures and algorithms, data modelling, data warehousing, ETL, data scaling/sharding, test driven development, continuous integration/delivery, build systems, threading, async programming, low latency services, object-oriented design, debugging, data collection/QA, data warehousing, data reporting, message queues, transaction-processing, scale-up vs. scale-out |
| Soft Disciplines              | Operational management, coaching, project management, requirements analysis, technical facilitation, technical writing, presenting, technical recruiting, team building   |
| Finance                       | Technical/fundamental analysis, performance attribution, risk modelling, portfolio optimization, portfolio simulation/back testing, time-series analysis, netting/crossing algorithms, cash flow modelling, asset management, corporate finance, equity research  |
| Platforms                     | Windows, Linux (RedHat, Ubuntu), OpenVMS, cloud infrastructure (Azure/AWS)  |
| Database Systems/Technologies | RDBMS (SQL Server, PostgreSQL, MariaDB, Oracle, Vertica), document dbs (Couchbase, MongoDB), graph dbs (TigerGraph, AWS Neptune), key value stores (Couchbase, proprietary), caching layers (memcached, proprietary), other (Elasticsearch, ZooKeeper, Kafka)   |
| Primary Languages             | C#, C++, SQL, Perl; PowerShell, Bash, Python  |
| Tools/ Frameworks             | .Net, Git, Perforce, GitHub, Jenkins, Excel, XML/XSLT, ORMs, JAMS, SSIS, R, FreeTDS, SOCI, IIS  |

## Work Experience

### FactSet Research Systems Inc.

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| 1/2015 – 4/2019:   | Vice President, Principal Software Engineer, Database Infrastructure         | Norwalk, CT, USA |
| <ul style="list-style-type: none"><li>Technical lead for all internal RDBMS infrastructure and related services</li><li>Provided consulting on data modelling, ETL, data pipelines, ingestion, transaction processing, reporting and more</li><li>Develop/manage/support a secure, elastic RDBMS proxy and multi-tenancy infrastructure</li><li>Helped to develop FactSet's road map to move our application stack from our own data centres to public cloud</li><li>Lead a six-month research working group to vet commercial/open-source RDBMS technologies and select a standard for future internal use. Gained an in depth understanding of DB2, Oracle, PostgreSQL, SQL Server and MariaDB</li><li>Regularly engaged with external database technology vendors to vet and recommend internal technical direction</li></ul> |  |                  |
| 3/2012 – 1/2015:   | Vice President, Principal Software Engineer, Content Integration Engineering | Norwalk, CT, USA |
| <ul style="list-style-type: none"><li>Was invited to lead a new team focused on data architecture and consulting</li><li>Worked extensively with diverse business units to match their product needs to data technologies</li><li>Led an R&amp;D project to design/build a new high-performance data-store/service for a specific dataset</li></ul>  |  |                  |
| 12/2008 – 3/2012:  | Vice President, Associate Director, Content Integration Engineering          | Norwalk, CT, USA |
| <ul style="list-style-type: none"><li>Shifted focus to lead content integration for various new high-profile areas: reported company chart of accounts, analyst estimated company data, M&amp;A, institutional/insider ownership and private equity</li><li>Dealt with attrition/morale issues after a significant reorganization. Identified new leaders and rebuilt teams.</li><li>Built new working relationships with FactSet's growing inhouse content collection and collection engineering groups</li><li>Facilitated the technical integration of several acquired companies</li><li>Established an initial offshore team in Manila. Developed a recruiting/training strategy with HR. Visited several times.</li></ul>  |  |                  |

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| 9/2004 – 12/2008:  | Vice President, Associate Director, Product Engineering | Norwalk , CT, USA  |
| <ul style="list-style-type: none"> <li>Moved to the US to lead International Database Engineering (Europe, Asia-Pac and a core of US activity too)</li> <li>Managed continued growth. Ultimately led a team of 30 across three regions including sub-managers.</li> <li>Drove several key infrastructure and product initiatives, and continued to lead the Internationalization (I18N) agenda</li> </ul>  |   |                    |
| 9/2001 – 9/2004:   | Head of Asia Pacific Engineering                        | Tokyo, Japan       |
| <ul style="list-style-type: none"> <li>I was asked to relocate to Tokyo and tasked with repeating the success of hiring database engineers in London</li> <li>Hired and trained a local Tokyo engineering team while also continuing to remotely manage the London group</li> <li>Managed vendor relations with various Asia-Pac data suppliers (stock exchanges, financial publishing companies)</li> <li>Initiated the effort to internationalize FactSet's codebase and ultimately deliver localized product</li> </ul> |   |                    |
| 12/1999 – 9/2001:  | Software Engineer, London                               | London, UK         |
| <ul style="list-style-type: none"> <li>Shifted over to Software Engineering to start the first non-US engineering team</li> <li>Hired and trained the first tier of London database engineers</li> <li>Personally developed several data feed systems. Built the first generation of generic data integration tools.</li> </ul>  |   |                    |
| 2/1999 – 12/1999:  | European Product Management, London                     | London, UK         |
| <ul style="list-style-type: none"> <li>Started a Product Management group in London to focus on the unique product needs of the European market</li> <li>Worked extensively with several external data suppliers to host their data on the FactSet platform</li> </ul>   |   |                    |
| 4/1996 – 2/1999:   | Product Development, Greenwich                          | Greenwich, CT, USA |
| <ul style="list-style-type: none"> <li>Provided tier-2 support to clients. Worked with sales on custom client projects involving the FactSet API.</li> <li>Took many engineering classes at NYU. Taught myself C++ and actively started contributing code to the FactSet system.</li> <li>Product lead for the FactSet-Excel Link. Developed several significant enhancements to Excel functionality.</li> </ul>   |   |                    |
| 4/1994 – 3/1996:   | Client Services/ Sales Engineering                      | London, UK         |
| <ul style="list-style-type: none"> <li>Employee #3 in FactSet's London office. Part of the core team trying to establish FactSet's business in Europe.</li> </ul>  |   |                    |

## Education

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| 9/1989 – 6/1992: | St. John's College, Oxford University – B. A. Honours, Mathematics | Oxford, UK |
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## Miscellaneous

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| Dual national (UK/US). Interests: Playing guitar (blues, rock); repairing/hacking guitars/amps; music technology; scouting (assistant scout master for local troop, Wood Badge N2-72-17); Aikido; mathematics; puzzles; electronics; wood working; blogging |
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