



JON-PAUL BOYD

Intelligent Systems Engineer

I thrive on delivering tangible, cutting-edge, AI-enabled and analytic solutions that inform, empower & perform. I help solve business challenges and deliver value to all stakeholders through strong theory, practical hands-on, clarity of thought and communication.

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CAREER HIGHLIGHTS

SAP HANA Technical Architect

Nestle | Vevey, CH | 2014 – 2017

- Technical lead, inspiring team implementing groundbreaking first HANA-based analytic reporting solution for 3000 users.
- Led 5 HANA major upgrades & migration of analytics sidecar to embedded NetWeaver/HANA dual stack.
- Extensive XSC/XSA development with database modelling, Fiori, SQLScript, XSJS, Node.js, security, optimisation.
- Developed automated tool for analytic privileges build & assign, performance tool measuring query runtimes vs KPIs.
- Configured HANA workload management, HALM, HRF. Major contributor to Nestle HANA Development best practices.
- Daily liaison with Nestle & SAP partners, presentation to management, key users, technical and product teams.
- Learned I'm still hungry for technical challenges.

SAP HANA Technical Architect

Bluefin Solutions | London, UK | 2014

- Helped BAT realise Gartner's Logical Data Warehouse concept by implementing HANA SDA for data federation of London & Sydney databases.
- Developed P&L with sub-second performance (legacy 2m10s), SAP Fiori KPI dashboard with line item drill-down.
- Learned trust won on transparency & keeping delivery promises goes a long way.

SAP HANA Technical Architect

HANA Propulsion Laboratory | Blonay, CH | 2013

- Engineered remote piloted vehicle with real time telemetry to Cloud-hosted HANA database for analytics & real time vehicle control via openUI5 browser cockpit.
- Data mining for game analytics & achievement/reward system tied to mission objectives & pilot behaviour.
- Learned benefits of deep and wide research.

SAP Web Dynpro ABAP Consultant

Nestle | Vevey, CH | 2010 – 2013

- Lead developer for complex development & problem-solving, delivered technical training for offshore teams.
- Brought sophisticated recipe change doc concept to life with UI design driven by simplicity, familiarity & customisation.
- Learned greater self-belief & improved interpersonal skills through learning from others.

SAP ABAP Consultant

Belgian Railways | Brussels, BB | 2008 – 2010

- With a natural team-lead expertise successfully delivered a warehouse management shipment handling project.
- Individually responsible for complex bespoke development functionality within logistics execution.
- Learned love of OO dev & software in physical systems.

SAP ABAP Consultant

Cap Gemini | Middlesbrough, UK | 2000 – 2008

- Senior ABAP dev in SAP competency centre, responsible for on-going support, dev & upgrades for several clients.
- Analysed customer SAP systems from ABAP perspective to enable the smooth transitioning to SAPrun support.
- Delivered revenue earning on-site consultancy/training.
- Work pipeline management and assignment, training and support of 3 ABAP developer colleagues.
- Innovated systems integration monitoring dashboard.
- Learned rewards of coaching juniors.

EDUCATION

Masters Intelligent Systems

De Montfort University | UK | 2017 – 2020

- Discovered why stronger partnerships should exist between enterprise and academia.
- **Applied Computational Intelligence (88%)**
Predicting customer behaviour with tree-based classifiers. Extensive Python with data profiling & preparation, unsupervised & supervised machine learning, overfitting protection, hyperparameter tuning, model scoring, evaluation & selection.
- **A.I. Programming (80%)**
NLP Python NLTK context-free grammars for natural language to SQL database query.
- **Data Mining (80%)**
Data analysis & machine learning to predict risk indicators for cardiovascular disease.
- **Neural Networks (80%)**
Evaluation of biomass & classification of network activity (intrusion, attack, normal).
- **Fuzzy Logic (94%)**
Classifying breast cancer tumours with fuzzy inference system, outperforming neural networks. Paper being submitted to journal of *Applied Soft Computing* for publication.
- **Research Methods (96%)**
PhD proposal for augmented analytics.
- **Mobile Robots (97%)**
Virtual search & rescue robot controlled via Python, implementing obstacle avoidance, sensor data fusion, environment mapping, precision navigation, victim location.
- **Computational Intelligence Optimization (100%)** Design & build of Python-based hyper-heuristic optimization platform to address the real-world problem of scheduling optimisation. 5 example nature-inspired metaheuristic algorithms are implemented. A hyper-heuristic feature dynamically switches between low-level metaheuristics to deterministically use the most appropriate algorithm according to current problem state, or select one stochastically.
- **Masters Project In Progress**
Building cloud-hosted medical research cockpit for knowledge discovery, summarization, topic classification & clustering for best-informed next stage research actions, using COVID-19 literature.

PRAISE

"Tech savvy, experienced, meticulous, dependable, ingenious & eager to learn more"

Rudi Dutli, Principal, Infosys Lodestone

"Builds comprehensive understanding of architectures involved, educating & inspiring teams & co-workers in the process. A real flair for challenging, on-the-edge development"

Trond Stroemme, Team Lead, SAP App Expertise Centre, Nestle

"An expert in his domain, a great team player. His focus on results with optimal quality is outstanding"

Norbert Rignall, Master Data Solution Architect, Nestle

STATS

23

LinkedIn Recommendations

24

Years software dev

5

Years HANA dev

36

Companies provided expertise

35

GitHub Repos

8

Masters modules graded distinction

12

Times consulting contract extended

1

Individual delivering client centric excellence

TOOLS

Python
Pandas
Numpy
Scikit-Learn
Keras
NLTK
Elasticsearch
MongoDB
SAP HANA
SAP ABAP
SAP Security
ReactJS
JavaScript
Amazon AWS
MS Azure
Docker
Git
GitLab
Linux
Windows 10

AWARDS

Microsoft Certified
Azure
Fundamentals

AWS Certified
Cloud Practitioner