

JON-PAUL BOYD

Intelligent Systems Engineer

A multi-skilled SAP HANA technical architect & A.I. engineering postgrad who thrives on delivering tangible, cutting-edge solutions that inform, empower & perform. I help clients solve business challenges fast with strong theory, practical hands-on, clarity of thought and communication.

+41 (0)79 952 18 81

■ jp@corticalstack.ai

corticalstack.ai

EDUCATION

in jonpaulboyd

Nyon, CH

STATS

CAREER HIGHLIGHTS

SAP HANA Technical Architect Nestle | Vevev. 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.

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 with Python & NLTK context-free grammars for natural language to formal SQL database query.

Data Mining (80%)

Full-flow data mining analysis and machine learning to predict risk indicators for cardiovascular disease.

Neural Networks (80%)

Evaluation of biomass & classification of network activity (intrusion, attack or normal) with nn's.

Fuzzy Logic (94%)

Classification of breast cancer tumours with fuzzy inference system (outperforming neural networks & other ML approaches). 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 API, implementing obstacle avoidance, sensor data fusion, environment mapping, precision navigation and victim location.

• Computational Intelligence Optimization (100%)
Design and build of Hyper-heuristic Optimization
Platform, a Python-based framework 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 and clustering etc for best-informed next stage research actions, using COVID-19 literature as unstructured data sources.

PRAISE

"Tech savvy, experienced, meticulous, committed, dependable, ingenious and eager to learn more" Rudi Dutli, Principal, Infosys Lodestone

"Builds comprehensive & passionate understanding of the architectures & frameworks involved, educating and inspiring teams and co-workers in the process. A real flair for challenging, on-the-edge development" Irond Stroemme, Team Lead, SAP App Tech Expertise Centre, Nestle

"An expert in his domain and a great team player. His focus on results with optimal quality is outstanding" Norbert Rignall, Master Data Solution Architect, Nestle

24

Years software dev

13

Years SAP ABAP dev

5

Years HANA dev

8

Masters modules graded distinction

36

Companies provided expertise

12

Times consulting contract extended

1

Individual delivering client centric excellence

TOOLS

Python **Pandas** Numpy Scikit-Learn Keras NLTK Elasticsearch MongoDB SAP HANA SAP Fiori SAP ABAP SAP Security React.IS JavaScript Amazon AWS MS Azure Docker Git GitLab Jira Linux Windows 10 SAS