



# 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, experienced hands-on, clarity of thought and communication.

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Nyon, CH

### CAREER HIGHLIGHTS

SAP HANA Technical Architect

**Nestle | Vevey, CH | 2014 – 2017**

Technical lead, inspiring team implementing groundbreaking HANA-based analytics reporting solution. Empowered 3000 users with multi-level recipe search to answer questions of regulatory compliance, quantity & procurement previously impossible. Learned I'm still hungry for technical challenges.

- Resolved SAP product shortcomings, developing tool for analytic privileges build & assign, enabling project go-live.
- Quantified performance, developing tool measuring query runtimes vs KPIs. Supported user experience & expectations.
- Led configuration of HANA workload management, HALM and HRF, acquiring required skillsets & sharing with team.
- Major contributor to Nestle HANA dev best practices.
- Led 5 HANA major upgrades & migration of analytics sidecar to embedded NetWeaver/HANA dual stack.
- Daily liaison with stakeholders, technical & product teams.

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. Learned trust won on transparency & keeping delivery promises goes a long way.

- Developed P&L with sub-second performance (legacy 2m10s), SAP Fiori KPI dashboard with line item drill-down.

SAP HANA Technical Architect

**HANA Propulsion Laboratory | Blonay, CH | 2013**

Learned HANA by engineering piloted vehicle, with real time telemetry to cloud-hosted dB for analytics & vehicle control via openUI5 cockpit. Realised benefits of deep & wide research.

- Data mining for game analytics & achievement/reward system tied to mission objectives & pilot behaviour.

SAP Web Dynpro ABAP Consultant

**Nestle | Vevey, CH | 2010 – 2013**

Hired to solve skillset deficit, lead for complex development, problem-solving & upgrades. Learned greater self-belief & improved interpersonal skills through learning from others.

- Brought sophisticated recipe change doc concept to life with UI design driven by simplicity, familiarity & customisation.
- Delivered technical training for offshore teams.

SAP ABAP Consultant

**Belgian Railways | Brussels, BB | 2008 – 2010**

With a natural team-lead expertise, successfully rescued a failing technical project to deliver integration of RF scanning into warehouse management shipment handling. Learned love of OO dev & software in physical systems.

- Individually responsible for complex bespoke development functionality within logistics execution.

SAP ABAP Consultant

**Cap Gemini | Middlesbrough, UK | 2000 – 2008**

Senior ABAP dev in SAP competency centre, supporting team's flagship nearshoring service by analysing customer systems from ABAP perspective to enable the smooth transitioning to SAPrun support. Further demonstrated technical & client-facing capability by delivering additional revenue earning on-site consultancy & training. Learned rewards of coaching juniors.

- Work pipeline management and assignment, training and support of 3 ABAP developer colleagues.
- Innovated systems integration monitoring dashboard.

### 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

**25**

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