



# 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.

+41 (0)79 952 18 81

✉ [jp@corticalstack.ai](mailto:jp@corticalstack.ai)

🌐 [corticalstack.ai](http://corticalstack.ai)

🌐 [ionpaulboyd](http://ionpaulboyd)

📍 Nyon, CH

### 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

**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