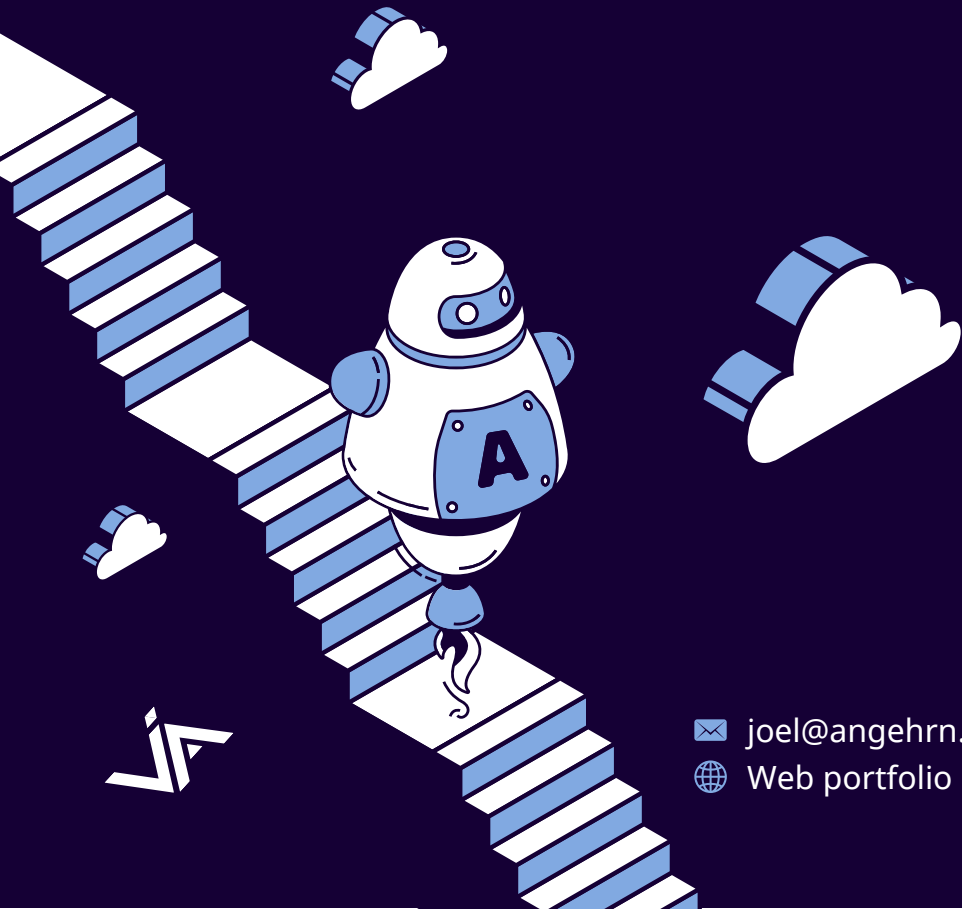# PORTFOLIO

Joel Angehrn

Software Engineer, SAP and Automation

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🌐 Web portfolio ↗

SAP tasks and projects

SAP/ABAP SQL CDS Views DynPro Structured data

Interface maintenance

- Support and develop SAP PI/PO integrations and API mappings
- Implement health checks, alerting and automated remediation
- Analyze process failures, perform root-cause analysis and implement durable fixes and automations
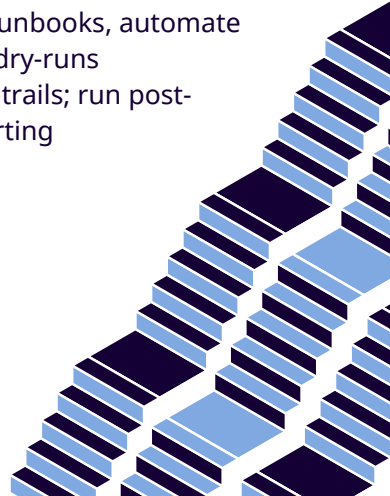
ABAP & core

- ABAP / ABAP Objects, Open SQL, CDS Views
- Dictionary, Dynpro / ALV, function groups, batch jobs
- SAP HANA modeling and performance optimization
- Debugging, performance analysis, user & authorization management
- Structured data handling (XSD, XML, JSON)

Migration projects

- Map, transform and validate legacy booking and master data to target SAP schemas; perform XSD/XML checks and data reconciliation
- Plan and execute migration cutovers: create runbooks, automate data loads, coordinate cutover tasks and run dry-runs
- Implement rollback procedures and full audit trails; run post-migration verification and reconciliation reporting

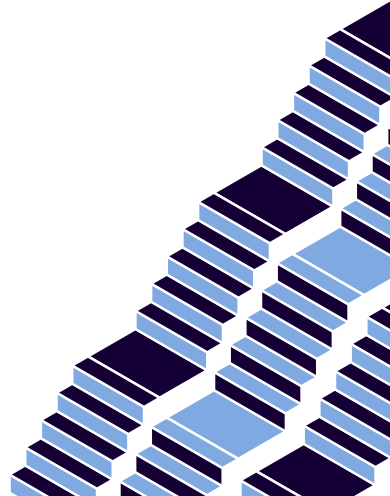Projects under NDA

Robotic process automation

Python PowerShell SAP Automation APIs AI/ML training

- Planned, configured and operated automation environments including server setup
- Python for process automation; PowerShell for server-side automations
- Developed and maintained REST, SOAP and internal API integrations
- Integrated and trained AI/ML models with internal data
- Built automated workflows for email, invoices and customer data
- Monitoring, maintenance support and incident handling

Projects under NDA

Personal projects

Python spaCy Next.js Node.js PostgreSQL OpenAI

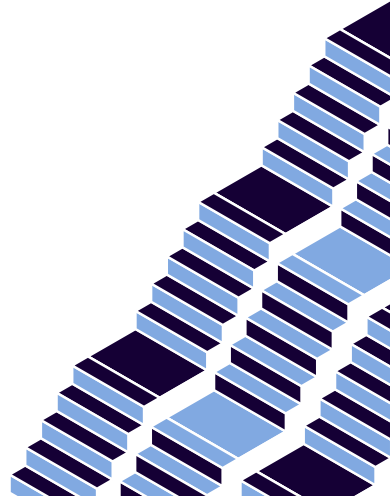## University Course Finder ⬤ GitHub link

- Built a searchable, multilingual course directory and AI-driven fit suggestions used by prospective students.
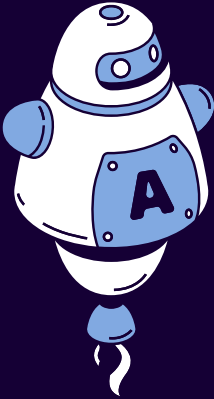- Stack: *Next.js, Node.js, Python, OpenAI, PostgreSQL*

AI Sentiment analysis ⬤ GitHub link

- Analyzed Reddit posts to measure sentiment for international students considering Switzerland.
- Stack: *Python, Hugging Face, spaCy, PostgreSQL, Docker*

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