Emil Sebastian Jino

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Software Consultant working on complex client and internal projects across cloud platforms and enterprise systems. Experience contributing to data migrations, software upgrades and automation initiatives, with a strong foundation in Python development, debugging and REST API integrations. Comfortable operating across both software engineering and tech consulting contexts, applying problem-solving skills and quickly adopting new technologies to deliver reliable, scalable solutions.

EDUCATION

- **University Of Bristol** — Bristol, UK
  MEng Computer Science — *Sept. 2020 – July. 2024*
  - **First Class Honours**:
- **Bishop Vaughan Sixth Form** — Swansea, UK
  A levels — *Sept. 2018 – June. 2020*
  - **Maths(A*), Biology(A*) and Physics(A)**:

EXPERIENCE

- **Automation Consultants** — Reading, UK (Hybrid)
  Software Consultant — *Sept. 2024 – Present*
  - Delivered end-to-end **Atlassian Cloud migrations** across **Jira, Confluence and Assets**, spanning discovery, solution design, execution, testing and go-live, **within agreed timelines and delivery scope**.
  - Completed **two full-scale Cloud migration projects** for:
    - a **UK public-sector financial institution** (Jira & Confluence), and
    - a **large UK-based technology company operating in identity and fraud prevention** (Jira, Confluence & Assets).
  - Built reusable **Python scripts** and **REST API** integrations to support data migration, validation and Cloud reconfiguration, reducing manual effort by $\sim$**30-50%** and improving repeatability across engagements.
  - Migrated and validated **numerous issues and Assets objects**, preserving hierarchies, references and issue links during Data Center to Cloud transitions.
  - Translated legacy server/data center behaviour into **Cloud-compatible solutions** (e.g., ScriptRunner to Jira Cloud Automation), reducing post-migration defects and ensuring workflow continuity.
  - Executed pre-migration cleanup and configuration rationalisation, migrated supported and unsupported marketplace apps, and completed post-migration reconfiguration to ensure business continuity at go-live.
  - Reconnected third-party integrations and replaced a server-only CRM integration with a Cloud-based **Dynamics CRM to Jira** workflow.
  - Created and maintained **technical documentation and runbooks** for both internal teams and client use, including migration procedures and operational handover guides, improving knowledge transfer.
- **University of Bristol** — Bristol, UK
  Graduate Teacher (Level 2) — *Sept. 2023 – May 2024*
  - Provided targeted academic support to a group of 5 students for a second-year module, covering $\sim 30\%$ of core content in supplemental sessions (e.g., using **GitHub** for code management).
- **University of Bristol** — Bristol, UK
  Software Development Team Member — *Sept. 2021 – Apr. 2022*
  - Built a video connection system for city-wide Gromit sculpture installations as requested by the university.
  - Enhanced front-end UI by dynamically resizing/customising content based on window size using **JavaScript**.
  - Used **GitHub** for version control, Kanban tracking and issue resolution to improve clarity and delivery.

TRAINING & PROFESSIONAL DEVELOPMENT

- **ACP-620**: Certified in Managing Jira Projects for Cloud, covering project configuration, workflows and advanced Cloud features.
- **Atlassian Cloud Migration Simulation**: Certified in Atlassian Cloud Migration fundamentals, including planning, execution and post-migration practices.
- **ML and Generative AI**: Certified in key machine learning and generative AI concepts, including modern model workflows and practical use cases.
- **Databricks Certified Data Engineer Associate**: Certified understanding of the Lakehouse platform and workspace, including performing multi-hop ETL using Spark SQL.

Programming Skills

- **Languages**: Python, JavaScript, Java, Go, Groovy, C/C++, HTML, CSS
- **Technologies**: AWS, Git, Unity
- **Frameworks** / **Libraries**: React.js, NumPy, PyTorch, Pandas

Projects

- **Dissertation - XGBoost in Betting Exchange Simulator**:
  - Implemented iterative XGBoost agents within the Bristol Betting Exchange (BBE) simulator, replicating and extending prior research through repeated training cycles.
  - Developed XGB1 achieving **0.96 accuracy**, then trained subsequent agents (XGB2–XGB4) using generated data to refine strategies.
  - Compared profit generation across strategies and identified diminishing returns beyond XGB4 vs. baseline agents.
- **Applied Deep Learning**:
  - Replicated and enhanced Dieleman et al.'s CNN for music tagging; improved AUC from $\sim$0.74 to $\sim$0.80 using MagnaTagATune with preprocessing in **Python**.
  - Tuned hyperparameters to reach peak AUC **0.8274**; improved robustness to **0.8433** with dropout and batch normalisation.
- **Stock Exchange Simulator (BSE)**:
  - Simulated trading agents (ZIP, ZIC, SHVR, GVWY, ZIPSH) in the Bristol Stock Exchange (BSE) and compared profitability under varied limit price strategies.
  - Applied statistical tests to validate results and support conclusions on agent performance.
- **VR-Games Project**:
  - Built a mixed-reality game connecting two physical spaces into one VR environment with cross-space interactions.
  - Implemented body tracking from 2 synchronised Azure Kinect cameras and networked data across 3 systems using Photon PUN2.
  - Developed 30+ custom scripts in Unity (C#) and created custom models/scenes/shaders.
- **3D Graphics Renderer**:
  - Built a C++ renderer from scratch (GLM/SDL2 only), producing Cornell Box outputs via wireframe rendering, rasterising and ray tracing.