

KAPILAN SIVANESAN

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EDUCATION

MBiol Biology, Wadham College, University of Oxford

October 2021 – June 2025

- Graduated with Upper Second-Class Honours (2:1).
- Awarded Wadham College Exhibition Award for academic work.

Queen Elizabeth's School, Barnet

September 2014 – July 2021

- A Levels: Biology A*, Chemistry A, Maths A, Physics A.
- GCSEs: Biology 9, Chemistry 9, Physics 9, English Language 9, English Literature 7, Geography 9, Economics 9, Music 8, French 8, Higher Project Qualification A*.

PROFESSIONAL EXPERIENCE

Data & AI Consultant, Kubrick Group, London

August 2025 – Present

Data Engineer, The AA (Client Engagement, 6 months)

- Designed and implemented production-ready data pipelines in Databricks using PySpark to onboard new third-party data sources, enabling integration ahead of deadlines.
- Developed transformation and join logic to standardise data formats and enrich anonymised datasets for downstream analytics and machine learning.
- Supported the migration of repositories to Databricks Declarative Automation Bundles, contributing to improved deployment workflows and platform standardisation.
- Collaborated with data scientists and engineers to deliver reliable, scalable data products within an Agile environment using Git, Azure DevOps and Jira.
- Shared technical knowledge and supported onboarding of new team members to improve team productivity.

Professional Training

- Completed Kubrick's Modern Data Platform programme, covering Databricks, PySpark, Delta Lake, Microsoft Azure and Power BI and cloud-native data engineering.
- Passed Databricks Certified Data Engineer Associate certification exam.

Undergraduate Researcher, MBiol Programme, University of Oxford

October 2024 – June 2025

- Research focus: biochemistry, structural biology, bioinformatics.
- Conducted research on NodD: a protein in rhizobia involved in regulating nitrogen fixation in legumes.
- Applied structural biology techniques such as mass spectrometry to investigate protein-ligand interactions and oligomerisation.
- Used AI tools such as AlphaFold to predict 3D protein structures from primary sequences.

IP Intern, Agile IP (Remote)

July 2024 – August 2025

- Participated in weekly online work experience focused on patent and trademark practice.
- Analysed real-world IP cases to explore strategies for intellectual property protection and enforcement.
- Drafted patent claims and conducted prior-art analysis for real-world intellectual property cases.

Data Analyst Intern, VANN (Remote)

June 2023 – July 2023

- Produced reports on pharmaceutical spending trends to support business strategy and market analysis.
- Conducted research into acquisition of real-world patient data by pharmaceutical companies.

CAPABILITIES

- **Programming Languages:** SQL, Python, R
- **Python:** PySpark, Pandas, NumPy, Scikit-learn, Requests, Seaborn
- **Data Engineering:** Azure Databricks (Certified Databricks Data Engineer Associate), Apache Spark, Delta Lake, Unity Catalog, ETL pipeline development, data modelling, pipeline orchestration, data anonymisation
- **Cloud & BI:** Microsoft Azure, Power BI, Microsoft Excel
- **Development & Collaboration:** Git, Azure DevOps, VS Code, Jira, Confluence
- **Practices:** Agile (Scrum), stakeholder engagement

LEADERSHIP

Secretary, Oxford Bioengineering Society

October 2023 – June 2025

- Organised a bioengineering symposium in Oxford with 100+ attendees and 7 speakers.
- Co-organised a national symposium at Stevenage Bioscience Catalyst, securing £7,000+ in ticket sales and sponsorship. Oversaw financial management, including ticket revenue, payments, and sponsorship.
- Secured guest speakers by networking with industry professionals.
- Carry out secretarial duties, including email communications, meetings, and record-keeping.
- Designed society branding, including the logo and promotional materials, using Adobe Illustrator.

Graphic Designer & Social Media Officer, Oxford Tamil Society

October 2023 – June 2025

- Design and publish social media content and promotional materials using Adobe Illustrator to establish society's branding.
- Film and edit videos of weekly dance sessions to upload on social media.
- Collaborate with society members to plan and promote events, increasing engagement and participation through targeted social media strategies.

ADDITIONAL INTERESTS

- **Graphic Design:** Experience with design and branding using Adobe Illustrator, Photoshop and InDesign, having created logos and graphics for various companies, societies, and social media accounts.
- **Web Development:** Experience with HTML/CSS and JavaScript for creating websites, and Figma for UI design. Created a personal portfolio website with Three.js and Blender.
- **Guitar:** Achieved Grade 6 (Electric) from Rockschoool and Grade 5 (Classical) from Trinity College London and performed at several events.