

James Vine

✉ james@jvine.uk | ☎ +44 7860 723423 | 💻 j-vine | 🌐 jvine.uk | 🌱 vine-james

📁 EXPERIENCE

JPMorgan Chase

Feb 2025 – May 2025

Software Engineering in Industry Programme

Bournemouth, UK

- Led project team as part of 10-week program, winning expo against 8 other teams, receiving award from Managing Directors.
- Developed full-stack banking app under SCRUM / TDD & OOP practices, leveraging Python (Django), Git, Docker, Jira, etc. Engineered functionality, RESTful APIs (Swagger), CI pipelines (Jenkins) & conducted code reviews & pair programming.

Bournemouth University

Nov 2024 – May 2025

Research Assistant (Data Science)

Bournemouth, UK

- Individually designed/delivered full-stack meta-learning data application as part of [Horizon EU Program \(ExtremeXP\)](#) [↗](#), enabling interactive ranking/comparison of dataset similarity via statistical analysis.
- Built recommendation system, returning best-performing models/parameters from analysis of historically similar datasets.
- Presented outputs within research group (professors, postdocs, PhD students). Invited to present remotely to ExtremeXP conference in Oslo.

Cabinet Office

Sep 2023 – Sep 2024

(Placement) Data Scientist

Whitehall, London, UK

- Developed cross-collaboratively two critical end-to-end data pipelines as part of two-person teams, each earning prestigious In-Year Awards at Department (2023) & Secretariat (2024) levels:
 - Integrated multidimensional data from 3+ gov departments, with time-series forecasting and geospatial analysis for weekly briefings to UK Chief Medical Officer, UK National Statistician & 30+ directors.
 - Leveraged AWS infrastructure, creating Python data pipelines to process/visualise real-time data from 5+ departments, creating interactive dashboards for ministers, special advisers & military leadership.
- Led cross-gov analyst meetings, alongside gov/parliament/private sector consultations for data-sharing projects. Delivered internal upskilling sessions to enhance team capabilities and industry awareness.

Secondment: Data Engineer, Cabinet Office Data Engineering

- Implemented automated scheduling system with email alerts, tracking analytical products, reducing delays & ensuring timely deliveries of senior gov briefings.
- Enhanced full-stack infrastructure serving 100+ high-level civil servants across Cabinet Office, 10 Downing Street, and ONS using Django, Docker & Git. Focused on OOP, architectural patterns, unit tests, code quality & performance, and agile workflow with Jira.
- Developed LLM-driven chart summarisation system with RAG for 320+ visualisations for internal platform, ensuring WCAG accessibility and key insight extraction.

Twin Atlas

Feb 2022 – Jan 2023

(Part-time) Software Engineer

Remote - Nevada, US

- Engineered weekly updates to front & back-end feature architecture for live game, supporting team to win Annual Innovation Award for Best Creative Direction @ 2022 Industry Developer Conference.
- Optimised existing codebase & features, refactoring 30K lines of code affecting testing & live production databases driving performance increase for mobile platforms affecting over 6.8M users.

Sonar Studios

May 2020 – Feb 2022

(Part-time) Technical Artist

Remote - Nevada, US

- Re-designed UI & UX user experience through complete rebrand of game interface, increasing player engagement with interface functionality by 47% affecting 9M MAU across computer, console & mobile.
- Collaboratively produced game maps through Blender, World Machine & Photoshop, supporting team to win Annual Innovation Award for Favourite Map @ 2021 Industry Developer Conference.

 EDUCATION

Bournemouth University
BSc (Hons) Data Science and Analytics

Sep 2021 – Current
Bournemouth, UK

- **Grade:** (Predicted) First Class Honours
- **Key Coursework:** Application Programming (94%), Deep Learning (92%), Tools of Data Science (90%), Data Management (82%), Principles of Programming (81%), Data and Databases (81%), Machine Intelligence (80%), Systems Design (72%), etc
- Science & Technology Academic Excellence Scholarship
- **Dissertation:** Civic Sage : Full-stack, deployed, RAG LLM service to provide sourced, up-to-date political data on MPs, generating summary constituent insights to Parliamentary offices. Key technologies: Python, Streamlit, Pandas, Plotly, AWS (S3, DynamoDB, Lambda, ECR), LangChain, BERTopic, Presidio, Pinecone, Pytest

Fareham College
National Extended Diploma in IT

Sep 2018 – Jun 2020
Fareham, UK

- **Grade:** Distinction*, Distinction*, Distinction*, top of cohort

 TECHNICAL SKILLS

Languages	Python (Frameworks: Django, Flask, Streamlit), SQL, Lua
Data Processing	Pandas / Geopandas, BeautifulSoup4
Data Visualisation	Altair, Plotly, Matplotlib, NetworkX
Machine Learning	scikit-learn, TensorFlow / Keras, NLP (NLTK, Gensim, BERT), LangChain
Collaboration	GitHub, Docker, Jira, Methodologies (SCRUM, TDD, BDD)
Infrastructure	AWS (DynamoDB, S3, Bedrock, Lambda, ECR), pytest, Sentry
Document Preparation	Pandoc, LaTeX