Jacob Stone

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Summary

First-class Data Science & Analytics graduate with 2 years' software engineering experience at a conversational AI startup. Skilled in ML (PyTorch, Tensorflow) and full-stack development (Laravel, PHP, Typescript). Strong communicator with proven delivery for enterprise clients. Eligible for UK Security Clearance.

Experience

- **OpenDialogAI, London** — Graduate Software Engineer | Jun 2024 - Present
  Key Skills & Strengths:
  - AI/ML Application: Actively building and utilizing applied AI/ML skill sets (Jupyter Notebooks, engineering talks).
  Testing & Quality:
  - Experience in Playwright and Browserstack for E2E testing; developing a TDD practice; keen eye for code quality and effective PR reviews.
  - Problem Solving: Delivered features where scope and complexity expanded beyond initial estimates, dealt with ambiguous tickets.
  - Feature Ownership: Drives small-to-medium features from technical design through implementation, testing, and delivery.
  Effective Communication:
  - Delivers effective technical presentations through bi-weekly demos to non-technical stakeholders.
  Achievements & Progress:
  - Led Testing & Documentation: Took leadership for testing and documentation of the "searchable select" feature, ensuring comprehensive wrap-up.
  - Key Contributions: Made substantial contributions to critical initiatives including Knowledge Services (RAG performance optimisations), RBAC, Multichannel, and security features.
  Mentorship & Collaboration:
  - Proactively offers PR reviews to peers and collaborates in pair programming.
  - Actively working towards Engineer II role by focusing on technical design contributions, owning features, and developing expertise in specific product areas (Analytics Dashboard).

- **OpenDialogAI, London** — Software Engineer Intern | Aug 2022 - Aug 2023
  - Initial focus on learning Laravel and Vue frameworks over first few weeks.
  - Completed experimental project using OpenAI's GPT-3 on release for NLU/NLP intent classification. This project was a success and was used in the year after my leaving. After, it was the basis for our semantic classification initiative. High-impact feature that was used to solve business problems for important insurance client (HolidaySafe, a brand under TifGroup).
  - Self-managed end-to-end development of features: customer requirements and planning, backend and front-end development using Vue.js, testing, and presenting to the client.
  - Adapted quickly to changes in a dynamic startup environment, following AGILE workflow principles.
  - Received a return offer after 8 months and a subsequent offer after completion of the term.

Projects

- Final Year Deep Learning Coursework | Dec 2023 - Jan 2024
  - Used **TorchVision** to create and implement a ResNet style architecture to classify images from the ImageWoof dataset.
  - Conducted 13 experiments to explore architectural changes and hyperparameter tuning.
  - Experiments included implementing Squeeze and Excitation blocks, changing kernel size, filter size, number of layers, different loss functions, batch normalisation, **L2 regularisation**, **ReLU** vs **SiLU** vs **Mish** vs **GeLU** activation and more. Obtained a 70% accuracy in 10 epochs, and achieved 93% as the final unit grade.

- Second Year Data Science Coursework | Dec 2021 - Jan 2022
  - Used **Tensorflow and Keras** to create + implement a custom CNN architecture to classify malaria cells from 27k (30x30) images.
  - Imlpemented model checkpointing, LR decay and data augmentation using Tensorflow's ImageDataGenerators for flipping/zooming/rotation. Achieved a final accuracy of 95.72%, and F1 score of 95.51%

Education

- **Bournemouth University** — BSc Data Science & Analytics (First-class) | 2020 - 2024
- **Extracurricular** — BU Anime Society President 2021-22 — Organised events, meetups, overseeing duties of 4 committee members.

Skills

Python, Numpy, PyTorch, Tensorflow, Pandas, Scikit-learn, Seaborn/Matplotlib/Plotly, LaTeX, PHP, Docker, Git, AWS, Laravel, Vue.js, Terraform.

Awards

- **Faculty of Science & Technology Placement Prize** — Highly Commended | 2022-23
  For outstanding performance and contribution while on placement. Awarded to students who go beyond expectations and take on and succeed with extra challenges; who make a tangible contribution; and/or make significant improvements to processes, the community and people's lives.

- **Letter of Commendation** | Academic Year 2021-22 — "The Assessment Board was very impressed by your high level of achievement across a broad range of subjects. The Board ensures standards at a national level and hence your performance is measured against other universities and colleges."