Adam Jaamour

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Education

University of St Andrews: MSc Artificial Intelligence   *(Sep 2019 – Sep 2020)*

- Predicted to graduate with Distinction.
- Master's Thesis: Breast Cancer Detection and Segmentation in Mammograms using Machine Learning techniques.
- Projects: Neural network-based model for classifying for aerial imagery of seal pups, Regression model for predicting superconductors' critical temperatures, Neural network ticket-routing agent, English POS tagger, Bayesian network inference agent, Flight route planner using informed search algorithms, Vector-drawing application, Java http server.
- Modules: Artificial Intelligence Principles *(probability/statistics, neural networks, search algorithms)*, AI Practice *(Python/Java projects)*, Machine Learning, Language and Computation *(NLP, NLTK)*, Object-Oriented Modelling/Programming, Information Visualisation *(Tableau, D3.js)*, Information Security Management, Web Technologies.

University of Bath: BSc (Hons) Computer Science with Work Placement Year   *(Sep 2015 – Jun 2019)*

- Graduated with First-Class Honours.
- Undergraduate Thesis: Content-Based Video Retrieval for Pattern Matching Videos – Unsupervised learning agent matching mobile recordings to database videos using static colour-based features (prototype Shazam for movies).
- Projects: Template-matching object recognition and SIFT features *(Python)*, AnsProlog timetabling, Environment-exploring rover *(Java)*, Binary image classifier *(Matlab)*, Haskell text adventure game, OpenGL/C++ 3D modelling.
- Modules: [Y3] Intelligent Control and Cognitive Systems, Computer Vision, Parallel Computing *(MPI, threading)* – [Y2] Data Structures and Algorithms, Machine Learning *(classifiers, regression, probabilities)*, AI Fundamentals, Visual Computing, Functional Programming *(Haskell, λ-calculus)*, Databases *(SQL)* – [Y1] Discrete Mathematics for Computation *(calculus),* Analytical Mathematics for Applications, Principles of Programming *(C and Java projects)*.

Lycée Albert 1er (Monaco): French Baccalaureate, Scientific Stream with "Option Internationale".   *(Sep 2012 – Jul 2015)*

Work Experience

Scuderia Toro Rosso Formula 1 Team: Software Engineer Placement, *UK*   *(Jul 2017 – Aug 2018)*

My role consisted in developing and stabilising the front-end and back-end architectures of a large single-page web application designed to deliver terabytes of aero simulation data per week. This involved improving robustness with extensive test coverage (unit, integration and acceptance tests), optimising performance (identifying slow SQL queries and parallelising I/O workflow) and liaising closely with the aero engineers in the UK and Italy to understand and define new requirements. The system is built with the following technologies: Python & Django, KnockoutJS & SCSS, PostgreSQL and Docker.

Monte-Carlo Multimedia: Android Application Developer Intern, *Monaco*   *(Jun 2016 – Jul 2016)*

I was assigned to create a scalable template Android application for a real-estate agency from scratch by fetching data from a single XML feed, which involved writing the server-side logic in Java and the UI in XML. Using my template, a second application was created in under three hours on the final day and published on the Google Play Store *(https://bit.ly/2qqexsH)*.

Technical Skills

- Programming experience:
  - Main programming languages: Python, Java and web-based languages (JavaScript ES6, HTML, CSS, Bootstrap).
  - Frameworks: Python ML suite (Scikit-Learn, NumPy, Matplotlib, Pandas, OpenCV, Jupyter) and Django.
  - Experience programming in C, Haskell, MATLAB, SQL, Node.JS, JQuery, KnockoutJS, Swift and Basic (AGKv2).
- Software engineering skills: git version controlling, unit/integration/acceptance testing, CI/CD, agile development.
- RITTech Professional Registration (Specialist Area of Software Development) with the BCS: RITTECH003290.
- Professional skills: strong analytical, problem-solving, communication and team working skills.
- Proficiency working on any operating system: Windows, Mac and Linux (Fedora, Ubuntu and Debian).
- Native speaker in both English and French. Working proficiency level in Spanish.

Side Activities

- Sports: tennis, football, padel and golf. Outdoor hobbies: karting, scuba-diving, free-diving and mountain hiking.
- Participation in Hackathons, Science Debate Club (won in 2014) and Model United Nations.
- 4-time Class Representative (2008/09 & 2010/11 & 2013/14 & 2014/15) and once Grade Representative (2013/14).

www.adam.jaamour.com   GitHub   StackOverflow   www.linkedin.com/in/adamjaamour