Tim Parker Russell

AI Developer

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Work Experience

AI Developer

AMPLIFY LIFE   *Sep. 2018 - Present*

- Designing, developing and integrating AI/Machine Learning modules into the 'Amplify' fitness and wellbeing app.
- Built either 'from scratch' or utilising AWS services. Integrated into a cloud infrastructure using AWS, mostly NoSQL databases, and RESTful APIs. The AI is driven by data collection, expert knowledge and user feedback, and involves:
    - Recommendation and search systems based on supervised learning
    - Natural language processing, for both learning and synthesis
    - Forward/backward inferencing, and modelling, to reason on data and generate user predictions and advice

Programming, Graphic Design, Editing

FREELANCE   *2012 - 2018*

- Created automation & visualisation software, websites, logos, adverts and artwork for various clients. I also edited the book *Dark World*, and my work has been used for the cover of Nike Sulway's *Rupetta*.

Education

MSc, Intelligent and Adaptive Systems

THE UNIVERSITY OF SUSSEX | DISTINCTION   *Sep. 2017 - Sep. 2018*

- Machine Learning and Artificial Intelligence techniques
- Biological and machine intelligence, adaptivity and evolution, with their application to practical problems including genetic algorithms, Kalman filtering, path integration and control theory. Also studied dynamical systems analysis, plus the fields of artificial life and neuroscience of consciousness.
- Project: Modelling spiking neural networks to develop a novel image familiarity method for use in visual navigation

BA, English Language and Literature

THE UNIVERSITY OF BRIGHTON | 2:1   *Sep. 2013 - Aug. 2016*

- Committee member, won British Universities Karting Championship silverware with the Brighton University Motorsport Team

Skills

Technologies	Confident: Java, Python, TypeScript, AWS (Lambda, S3, Comprehend, Personalize, DocumentDB, CDK), MySQL, Spring, scikit-learn, git/GitHub	Some experience: C++, TensorFlow, Keras, MongoDB, Ionic
AI concepts	Natural language processing, recommender systems, forward and backward chaining, data preprocessing, game playing e.g. Minimax, genetic algorithms, neural networks, parameter tuning, cross-validation, etc.
Misc	Photoshop/Illustrator, Excel, documentation & diagramming, copy editing, data scraping, LaTeX