

Tim Parker Russell

AI Developer

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Work Experience

AI Developer

AMPLIFY LIFE

Sep. 2018 - Present

- Developing and integrating AI/ML systems and data pipelines into the 'Amplify' fitness and wellbeing app.
- Most are integrated into a cloud infrastructure using AWS services, and exposed via RESTful APIs.
- Various driven by data collection, expert knowledge and user feedback, they include:
 - Recommendation and search systems
 - 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 and 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 application to practical problems including genetic algorithms, Kalman filtering, navigation 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: Typescript, Python, Java, AWS (standard services, plus Comprehend, Personalize, CDK), SQL and NoSQL DBs, Spring, scikit-learn, git and GitHub | Some experience: C++, Rust, TensorFlow, Keras

AI concepts

Natural language processing, recommender systems, inference engines, data preprocessing, game playing e.g. Minimax, genetic algorithms, neural networks, parameter tuning, cross-validation, data visualisation

Misc

Photoshop/Illustrator, Excel, documentation & diagramming, copy editing, data scraping, LaTeX