

GREG DETRE

greg@gregdetre.co.uk

www.gregdetre.co.uk

07967 024210

EDUCATION

Princeton University (2004-2010) - PhD, Psychology & Neuroscience

- Pushed the state-of-the-art in mind-reading from fMRI brain scanners with machine learning, to successfully test our predictions about human forgetting.
- Behavioral experiments, brain imaging and computational models of learning in the brain.
- Led the development of open source machine learning software toolbox for fMRI, used by labs around the world.
- Co-ordinated the team behind Princeton's prize-winning entries in international DARPA competition to read minds with brain scanners.
- Co-winner of the Young Investigator Award, from the Society of Judgment & Decision-making.

Harvard University (2002-2003) - Visiting graduate student awarded prestigious Frank Knox Fellowship, studying Artificial Intelligence

Oxford University (1999-2002) - First-class honors, BA in Philosophy, Psychology & Physiology.

EMPLOYMENT

Big Health/Sleepio - Chief Technology Officer (2014-2016)

- Helped raise a \$12m Series A from top investors in London and Silicon Valley.
- Responsible for hiring and success of engineering team, technical architecture and infrastructure, and data flows & analysis.
- In charge of development of a brand-new iPhone app in just 4 months, that was featured by Apple as part of the launch of iOS 8, reached 3rd in US iTunes Health & Fitness, and was downloaded hundreds of thousands of times.
- Simultaneously architected new Python/Flask API and infrastructure to replace a complex legacy PHP codebase. They run side-by-side and are being carefully migrated with no major downtime or disruption. The new API is much easier to understand and extend, more secure, and terser.
- Assisted in negotiations and helped coordinate over a dozen successful major launches and partnerships, mostly to Fortune 100 and 500 companies.
- As Security & Privacy Officer, I rewrote our security & privacy policies, led technical development, and brought us to HIPAA (and then later HITRUST) compliance.

The Guardian - Consultant data scientist (2013)

- Consultant data scientist, advising senior management on product questions and data analysis.
- Led a new team charged with building a large-scale data warehouse for billions of data points from scratch.
- Ran workshops on applying scientific method and AB-testing to product design.
- Developed novel machine learning approaches and tools to understand clusters of user behavior, and to visualize large-scale content patterns.

Memrise.com co-founder, Chief Technology Officer (2008-2012)

- Memrise's approach to learning words and facts has been used by 4 million people around the world to learn words and facts in more than 100 languages. We raised \$5m in venture capital, and have been featured internationally (e.g. NY Times, Wired, BBC, Guardian, Fox News).
- Hired and managed a very successful technical team for 4 years.
- Led the design and development of a novel, flexible, large-scale platform for highly effective crowd-sourced vocabulary learning, based on evidence from psychology and neuroscience.
- Rich, scalable Python/Django/MySQL/Javascript hosted on AWS. Complex javascript infrastructure to make our learning environment snappy once loaded, and highly interactive. Adaptive learning algorithms to decide how and when to test learners, in order to maximize the effectiveness of their learning. Comprehensive set of Python and Selenium unit tests. Continuous deployment to the live site many times a day (one command to deploy to multiple web servers, migrate the database, run the whole suite of unit tests, and alert the rest of the team on Campfire). Powerful internal AB testing and analytics framework that made it very easy to run multiple simultaneous AB tests, and track their effects across multiple key metrics.

SKILLS

Highly fluent in Python (Django, Flask), SQL (MySQL, Postgres), HTML/CSS/Javascript (React, jQuery), Matlab, Linux sysadmin, AWS, database administration. Experience with R, Clojure, and various other languages/platforms.

Deep experience in software architecture, large-scale data analysis & visualization, machine learning, deep learning, continuous deployment, test-driven development, information security/privacy/compliance and data protection, experiment design & AB testing, web analytics, product development, managing remote employees, hiring, Kanban & agile development.

Experience hiring, managing and mentoring dozens of engineers, data scientists, product managers, designers, research assistants and interns.

REFERENCES AVAILABLE UPON REQUEST