George Whewell

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Experienced software engineer with a wide range of skills. Passion for learning new technologies and and finding innovative and efficient solutions to problems.

DEGREE

Bachelor of Science, Second class honours, upper division
Physics and Astronomy
University College London, graduated June 2011

COMPUTER SKILLS

Languages & Packages: Python (incl. SciPy, Numpy), Javascript.

Software & Frameworks: SQL (MySQL, PostgreSQL) & NoSQL (GAE Datastore, MongoDB, Riak) databases, Google App Engine, Amazon AWS, Django, Tornado, RabbitMQ, Elasticsearch, Varnish, Apache, nginx.

Operating Systems: Linux, OS X, Windows

EXPERIENCE

Senior Backend Developer August 2011 — February 2014
Beyond Digital — London/San Francisco

- Spent eight months in San Fransico supporting digital creative team as first US backend team member
- Supported YouTube *Carnaval* Project in Salvador, Brazil by coordinating work with London team and implementing post-launch adjustments
- Built highly-scalable web applications using Python on Google App Engine capable of scaling to hundreds of thousands of concurrent users within minutes
- Architected and implemented backend systems for Virgin.com with a real-time user-tracking and content recommendation engine.
- Developed scalable queue-based video encoding backend on Amazon AWS platform
- Developed second-screen presentation platform allowing audience members to follow a presentation on their mobile device in real-time for high-profile sales event

Product Validation Team (Internship) June 2010 — October 2010
Icera Semiconductor Inc (now *Nvidia*) — Bristol, UK

- Performed and developed performance regression and functional tests for mobile chipset firmwares
- Automated test suite, from uploading new firmwares to producing reports and charts
- Documented and filed detailed bug reports, obtained core dumps and tracebacks for bugs

Developer (Non-staff) June 2008 — October 2009
Jomoto Industrial Automation Inc. — Coventry, UK

- Fixed bugs in Visual Basic industrial automation package for building prefabricated houses
- Added new outputs showing additional information for display on factory floor

EDUCATION *University College London*

- Achieved 2:1 degree class in Physics and Astronomy, scoring especially well in technology-related modules (93% in Scientific Computing using Object Oriented Languages)
- Wrote a passenger simulation for abitrary urban transit systems in order to model congestion as my contribution to a group project
- Implemented Inverse Abel Transform image pipeline in Scipy/Numpy to reconstruct 3-D experiments from 2-D projection as part of tutored research

King Henry VIII School

- A-levels in Maths, Economics, Computing, Physics
- 9 A-grade GCSEs

REFERENCES Available on request