

# George Whewell

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Experienced software engineer with a wide range of skills. Passion for learning new technologies 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) databases, Google App Engine, Amazon AWS, Django, Tornado, RabbitMQ, Elasticsearch, Varnish, Apache, nginx.

*Operating Systems:* Linux, OS X, Windows

## EXPERIENCE

*Contract Software Developer*

June 2015 — October 2015

- Supplied custom CRM for major UK media organisation capable of holding millions of profiles.

*Senior Backend Developer*

August 2011 — June 2015

Beyond Digital — London/San Francisco

- Spent eight months in San Francisco 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 arbitrary 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