

<http://priddle-higson.com>  
<http://github.com/andrewgph>

# Andrew Priddle-Higson

Seattle, USA  
+1 (425) 598-5725  
[andrewgph@gmail.com](mailto:andrewgph@gmail.com)

## Employment

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**Software Development Engineer III**                      **Amazon**                      **Jan 2013 - Present**

I'm working within the Forecasting org in Seattle. My team consists of Engineers and Scientists working on generating forecasts for new products at Amazon.

- Lead Software Engineer for a team of 10 Engineers.
- Team runs over 50 EMR clusters daily, collectively using over 1000 EC2 instances and processing 35 TBs of data to generate forecasts for 11 Amazon marketplaces.
- Led the migration of team applications from Hadoop MapReduce jobs running on a legacy shared cluster to EMR and Apache Spark. 10x increase to the number of experiments we could run and 52x increase to the scale of the experiments.
- Designed and implemented experimentation tools used by Engineers and Scientists.
- Worked with Research Scientists to implement a RNN (LSTM) model in production, using Keras, MXNet and Theano (8.4% forecast improvement over Black Friday 2017).
- Promoted to SDE III in Oct 2016.

Previously worked on the Payments Platform in Vancouver, Canada (until Oct 2015).

- First member of my team in Vancouver, working remotely with team in Seattle. Helped the Vancouver team grow to 11 engineers and a manager.
- Wrote the first iteration of a widget used on the Amazon Wallet page, new version saved \$1 million annually in development costs.
- Led a team of 6 engineers to implement payment selection in the amazon.com checkout using our widget framework.

Technologies: AWS, EMR, EC2, S3, Scala, Apache Spark, Apache Hadoop, Python, Keras, MXNet, C++, Bash, Random Forests, Neural Networks, Git, Java, JavaScript, jQuery, Sass, CSS, JSON, XML, Spring

**Senior Software Developer**                      **OpenBet**                      **Oct 2009 - Dec 2012**

OpenBet is a leading supplier of software to the online gambling industry. I worked on client teams for BCLC (British Columbia Lottery Corporation) in Vancouver, Canada and William Hill in London, UK.

Technologies: JavaScript, jQuery, TCL, Bash, SQL, Informix, Apache HTTP server, Apache Tomcat, CVS, SVN, CSS, JSON, XML, HTTP Push, HTML

**Teaching Support Provider**                      **University of Edinburgh**                      **2006 - 2009**

Courses: Artificial Intelligence, Object-Oriented Programming, Functional Programming, Computation and Logic, and Data and Analysis.

Technologies: Haskell, Java, SQL, PHP, PostgreSQL, SVN

## Education

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**M.Phil. Informatics**                      **University of Edinburgh**                      **2006 - 2009**

Supervisors: Prof. Alan Bundy, Dr. Fiona McNeill, and Mr. Burkhard Schafer  
Thesis: *Computational Models of Ontology Evolution in Legal Reasoning*

**M.Sci. Mathematics (1st)**                      **University of Bristol**                      **2001 - 2005**