

# Rohan Kshirsagar

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CONTACT  
INFORMATION 32 Rachael Drive  
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EDUCATION **Duke University**, Durham NC  
*BSE Computer Engineering, BS Computer Science*  
GPA 3.53

2009 – 2013

EXPERIENCE **Software Engineer at Bloomberg LP**  
Artificial Intelligence and NLP Research Team

July 2013 – present

- Technical owner of the News Extraction and Headline Generation Product. Interfaces with product stakeholders, plans and implements enhancements for UI, Engine, and Metrics. Investigates high-profile issues related to Earnings releases and Economics releases.
- Overhauled Rule-Writing Application for News Extraction System to adapt to a Webkit based UI. Regularly worked with rule-writers to make workflow significantly more efficient as well as reduce the number of bugs by a large margin.
- Improved Data Extraction Latency by 70 % by adding in smart activation and caching to the data-extraction algorithm.
- Conducted novel research on Network Monitoring ASIC Chips. Implemented a n-gram language model using regular expressions to see a 3x gain on smaller sized language models. Automated experiments and visualization on various corpora. Reversed Engineered `langid.py` to implement Language Identification on the Accelerated Hardware chip to see a 6x performance gain. Research published as a short paper in [ACL 2015](#)
- Lead on Accelerated Hardware Extraction migration which handles conversion of hundreds of thousands of regular expressions, cross-packet matching, and out of order submission.
- Developed a statistical Location Algorithm for Table Understanding Project. Trained an SVM model using `libsvm` to identify relational tables in HTML documents, based on work by Cafarella et al.
- Developed a news-wide smart grep adaptor which could search through news tasks log files with smart date and time ranges

**Software Engineer Intern at Barclays**  
Portfolio and Analytics Team (POINT)

June 2012– August 2012

- Led the development for an iPad app for POINT in a team of 3. Focused on backend and authentication.
- Built a RESTful Web Service for a portfolio/index analytical tool (POINT) in `Java`. Implemented ability to load user's portfolios, indices, and reports as well as the ability to run market structure reports on any portfolio or index.

**Software Engineer Intern at Parakinetics** (Stealth-mode startup)

June 2011- August 2011

- Worked with 4 senior research engineers to develop a multicore browser application using `Java` and `C++` (POINT)
- Ran benchmarks to compare Single-core app vs. Multi-core app to present to potential investors/venture capitalists
- Wrote algorithm to automate parallelization of the DOM in the Android Webkit Framework
- Helped edit two research papers on Parallel Computing for Princeton Computer Science Liberty Research Group

LANGUAGES Computer: `C/C++`, `Python`, `Javascript`, `SQL`, `Unix`

Human: English (native), Spanish (basic), Marathi (fluent), Hindi (beginner)