AAYUSH UPPAL

Senior Software Engineer @ Bloomberg LP, Internal Systems and Web Applications | New York

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HIGHLIGHTS

- Areas of focus: Building high performance distributed systems, Scalable system design, Real time data analytics pipelines and data insight applications
- Other responsibilities: Leading a team, End to end project planning, Mentoring projects, Inner source and open source contributions

- Directorate of Technical Education Scholar
- Research Intern at National University of Singapore in one of the top solar research labs.
- Served as Executive Student Member for TIFAC-CORE initiative under Dept. of Science and Technology, Govt. of India.
- GPA 3.84

PROFILE

Bloomberg LP
May 2016 – Present
<u>Senior Software Engineer</u>
Internal Systems and Web Apps
- Communication Systems
- New York, NY

- Responsibilities include design & development for distributed backend event driven systems, data products and pipelines.
- Business resource Prediction, Optimization and Allocation product with Recurrent Neural Networks, Linear Programming and Apache Spark
- Real time metrics platform using Kafka, Spark Structured Streaming HBase, Cassandra
- Lead Developer on Projects, Mentoring Projects, Interviewer
- Python, C++, Scala, Spark, Hadoop, JavaScript, SQL, Cassandra

Amazon
May – August 2015
<u>Software Development Engineer, Intern</u>
AWS – CloudFront
- Seattle, WA

- Designed and Developed a pipeline based on TCP Anycast for experimental requests, reduced IP space consumption and performance analysis.
- RTT data automated comparative analysis reports between TCP Anycast and Latency Routing.
- Java, Python, Perl, Kinesis, Elastic Map Reduce, Hive

SubBoard Inc – University at Buffalo
October 2014 – December 2015
<u>Web Developer</u>
- Buffalo, NY

- Served as Web Developer for SubBoard Inc in University at Buffalo, A not for profit corporation providing a host of services for students.
- Responsibilities included developing and managing housing portal, legal portal, advertising and server administration.
- MySQL, WordPress, ASP.NET

University at Buffalo – State University of New York
August 2014 – February 2016
<u>Masters in Computer Science</u>
GPA: 3.84 / 4
- Buffalo, NY

- Focus: Distributed Systems, Artificial Intelligence and Machine Learning
- Multiple hackathons, projects, part time developer as a Student Assistant.

Compro Technologies
August 2013 – July 2014
<u>Software Engineer</u>
- New Delhi, India

- Worked on development of industry leading MyITLab teaching and learning platform. Developed key components for web module of the product.
- Agile, Web Services, Object oriented design, JavaScript, Java

National University of Singapore May 2012 – July 2012 <u>Researcher, Intern</u> - Singapore	▪ Summer intern at Solar Energy Research Institute of Singapore. ▪ Developed a raytracing simulation model for light trapping in solar cells. ▪ C++
National Institute of Technology August 2009 – May 2013 <u>Bachelor of Technology,</u> <u>Electronics and Communication</u> GPA 7.5 / 10 - Hamirpur, H.P. - India	▪ Directorate of Technical Education Scholarship Holder ▪ Co-convener INS & Controls ▪ Team leader, Electronics and Communication Engineering ▪ Executive Student Member, TIFAC Core Project ▪ Dam Warning System using GSM

PROJECTS

- **News Search, Summarization and Analytics**   2014
  - Developed a news search system that supports story summarization, chronological and topical summarization.
  - Query Parser, Vector Space Model, Lex Rank Analysis, Latent Dirichlet Allocation, Solr, JavaScript, EC2

- **Simplified Amazon Dynamo - Replicated Key Value Storage**   2014
  - Designed and implemented a simplified version of Amazon Dynamo which provides linearizability, availability.
  - Quorum replication, failure handling (Java, Android, Socket programming, Multi-threading, Distributed Systems)

- **Hybrid Multi-Layer Perceptron Neural Network for Classification of Handwritten Digits**   2015
  - Classified Handwritten Digits by implementing Back-propagation algorithm for Multi-Layer Neural Networks, Naive Bayes Classifier, Logistic Regression with an accuracy of 96%. (Python, NumPy, SciPy)

- **Web Portal for TIFAC-CORE Online Transformer Monitoring and Diagnostics**   2012-13
  - Executive Member of TIFAC-CORE Chapter. Project under Dept. of Science and Technology, Govt. of India.