AAYUSH UPPAL

Exp: 3Yrs | Software Developer @ Bloomberg LP, Internal Systems and Web Applications | New York

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HIGHLIGHTS

- Served as a developer professionally in various positions for Bloomberg LP, Amazon, Compro Technologies.
- Experience with Distributed Systems, building Data Analytics pipelines and systems for highly scalable applications and products.
- Mentoring projects and pushing product ideas from ground up to completion.
- 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 3.86

PROFILE

Bloomberg LP
May 2016 – Present
Software Developer
Internal Systems and Web Apps
- Communication Systems
- New York, NY

- Responsibilities include design & development for distributed backend systems, core product and infrastructure.
- Recurrent Neural Networks, Linear Programming, SMT solver for prediction & scheduling applications
- Data Analysis with Apache Spark, Spark Streaming.
- Lead Developer, Mentoring Projects
- Python, C++, Apache Spark, Hadoop, JavaScript, C#, SQL

Amazon
May – August 2015
Software Development Engineer, Intern
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
Web Developer
- 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
Masters in Computer Science
GPA: 3.86 / 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
Software Engineer
- 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
Researcher, Intern
- 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
Bachelor of Technology, Electronics and Communication
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.