

GAURAV MISHRA

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EDUCATION

- **STONY BROOK UNIVERSITY** Sept 2016 - Dec 2017
Stony Brook, USA
MS , COMPUTER SCIENCE
- **INDIAN INSTITUTE OF TECHNOLOGY, VARANASI** May 2006 - Apr 2010
Varanasi, India
BTECH , COMPUTER SCIENCE

WORK EXPERIENCE

- **PALA ALTO NETWORKS** May 2021 - Present
San Francisco, USA
PRINCIPLE SOFTWARE ENGINEER
 - Designing and building data processing pipelines using Apache Beam and Google's Dataflow.
- **THOUSANDEYES** Feb 2018 - April 2021
San Francisco, USA
SENIOR SOFTWARE ENGINEER
 - Designing, implementing and maintaining components of our data processing pipeline. These components include micro services for receiving data points from agents, processing them and finally storing them in a distributed data store. This pipeline currently process about 20k data points per second.
 - Implementing new user flows in our web application which exposes our agents new capabilities to customers.
 - Work on data visualisation component of our web interface.
 - Expose new apis to customers which allow users to interact with our platform from outside web interface.
 - **Tech Stack** - Java, Javascript, Spring boot, Mysql, Kafka, ElasticSearch, Angular1, Docker, Kubernetes
- **GOOGLE** May 2017 - August 2017
Kirkland , USA
SOFTWARE INTERN
 - Working in Ads Team , owned and developed troubleshooting features for Double Click Manager.
 - Using machine learning try to predict if a line item's current settings will perform well on ad exchange server.
 - **Tech Stack** - Java, Angular Dart, Spanner, St-cache, Tensor Flow.
- **TYPITO** Apr 2015 - July 2016
Bangalore, India
CO-FOUNDER/ENGINEER
 - Designed and built typito's backend which included the webapps and two downstream video rendering micro services.
 - Built video rendering engine using Ffmpeg's library. This module was responsible for overlaying graphics animations on top of a video.
 - Built a micro service for transforming graphics animation created on typito's UI to series of png images.
 - **Tech Stack** - Javascript/Nodejs, Express, C++, ReactJs, Ffmpeg, Amazon SQS, Amazon Elastic Transcoder, Phantomjs
- **TIVAMO** Aug 2014 - July 2016
Bangalore, India
TECH LEAD
 - Built video streaming infrastructure capable of streaming live video broadcasts or video on demand using Wowza media server . delivery protocols being hls and rtmp.
 - To cut down on infra cost prototyped use of nginx server as edge servers and Wowza as origin server.
 - For reducing latency prototyped infra based on WebRTC technologies (Kurento Media Server).
 - **Tech Stack** - Java, Javascript, Wowza, Kurento

- **DISNEY (PLAYDOM)** *Jun 2011-Mar 2014
Bangalore,India*
SENIOR SOFTWARE ENGINEER
 - Worked on end to end feature development of 4 social games for facebook . one of which was released for IOS and Android too.
 - Wrote a tool to convert swf file to a texture atlas which could be used by framework Starling to render UI using GPU.

- **INFOSYS** *June 2010-May 2011
Bangalore,India*
JUNIOR RESEARCH ASSOCIATE
 - Worked on Semantic Engine that could process a given english text and store it in a format which we could query later using natural language.
 - Prototyped a application that could process a legal document and guess which parts of the document are potential headnotes.A Patent was also filed for the same.

- **IBM** *Apr 2009 - June 2009
Bangalore,India*
TEST ENGINEER INTERN
 - Worked on automation of manual test cases using IBM's Rational Functional Tester.
 - Wrote a Module which using character recognition was able to automate certain test cases that were not possible using RFT alone.

PATENTS

- Automation of Headnote Extraction from a legal documents.
(<http://www.google.com/patents/US20130238316>)