

AMIT PANDA

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EDUCATION

M.S., Computer Science at **Georgia Institute of Technology, Atlanta (GPA: 4.0/4.0)**

Aug 2015-Dec 2016

- **Coursework:** Web Search & Text Mining, Machine Learning, Computability & Algorithms, Computer Networks, Advanced Internet Computing, Knowledge Based AI, Machine Learning for Trading, Data & Visual Analytics, Database Systems, Mobile Apps & Services

MSc.(Hons) Mathematics + B.E.(Hons) Computer Science at **BITS Pilani, KK Birla Goa Campus, India (GPA: 7.54/10)**

Aug 2008-Jun 2013

- **Coursework:** Computer Programming, OOP Design, Data Structures & Algorithms, Operating Systems, Computer Graphics, Human Computer Interaction, Graphs & Networks, Advanced Computer Organization, Programing Languages & Compilers
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TECHNICAL SKILLS

- **Programming/Scripting Languages:** Python, Java, C, C++, JavaScript, SQL, OpenGL, MATLAB, HTML, PHP, CSS, D3, Android
 - **Tools & Technologies:** GitHub, Elasticsearch, Redshift, Kafka, Splunk, Scribe, NoSQL, SQLAlchemy, MapReduce, Docker, REST APIs
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RELEVANT EXPERIENCE

Yelp Inc., San Francisco (Software Engineer, Transactions)

Mar 2017-Present

- Designed and developed an ETL pipeline to leverage daily Search, Intent and Order data stored in redshift clusters & upload them to Iterable (email service provider) for the marketing team to run promotional email campaigns. Added Spunk alerting & monitoring.
- Worked on fixing more than 50 bugs/scripts on Platform Playground & improving Albatross (integration testing framework)
- Currently working on creating the backend infra for a new 'Order Feedback' service to collect real-time feedback from Yelp users.

Yelp Inc., San Francisco (Software Engineer Intern, Transaction Growth)

Jun 2016-Aug 2016

- Developed a feature 'Delivery Search Tags' to display annotations on Vertical search page with an aim to increase the number of 'Order Starts' for existing restaurants. Analyzed live Yelp data using Amazon Redshift to discover order trends on Yelp Platform.
- Devised a new metric 'Delivery Score' for all businesses on Yelp based on user-reviews, delivery stats & other existing metrics.

Georgia Tech (Graduate Teaching Assistant for undergrad courses 'Databases and InfoSec' & 'Intro to DB Systems')

Jan 2016-Dec 2016

Oracle India Pvt Ltd., Bangalore, India (Member of Technical Staff, Oracle Public Cloud Infra)

Jul 2013-Jul 2015

- Developed Notification code to verify the accuracy & correctness of emails sent for all orders placed by using tokenized templates. Implemented a script to intelligently generate/update templates by automatic tokenization of e-mail data values.
- Reengineered the programming logic for seeding TAS orders which led to a 20% decrease in seeding time and database queries.

Oracle India Pvt Ltd., Bangalore, India (Intern, Member of Technical Staff, Oracle Secure Backup)

Jan 2013-Jun 2013

- Integrated a static code analysis tool (Parfait) with Oracle Secure Backup product after detailed analysis against the existing tool Valgrind. Comprehensively tested the tool on large amount of code and detected 35% higher memory leaks & buffer overflows.

DreamWorks Animation SKG, Redwood City, California (Intern, Junior Technical Director, Layout)

Jul 2012-Dec 2012

- Worked on 'The Penguins of Madagascar' and developed various JobTools scripts (Eg. Compare updated Previz Maya scene files, Character screen time viz etc). Revamped the model server for seamless integration at sequence level across DreamWorksstudios.
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PROJECTS

- **Looking Glass, 2016** – Developed a context-specific Image Recommender System (web app & chrome extension) to search for images based on entire document content (instead of keywords) using StanfordNLTK, Elasticsearch & Reverse Image Search.
- **RPM Solver, 2015** – Built a smart AI agent to solve 3x3 Raven's Progressive Matrices (a human intelligence test) for both visual and verbal inputs using various concepts like Means-Ends Analysis, Case-Based Reasoning, Frames and Semantic Networks.
- **Document Search NOSQL, 2015** - Developed an application using Python/Django & Elasticsearch to query and optimally retrieve relevant research papers and publications to facilitate research purposes and recommend a list of similar papers to the user.
- **San Francisco Crime Predictor, 2015** –Developed a crime prediction system for SFPD using ensemble Machine Learning algorithms on 12 years of SF crime data (2003-2015) and built an interactive visualization dashboard using Tableau to explore crime trends.
- **Market Simulator, 2015** – Built a market simulator to accept trading orders and assess the performance of a portfolio over time, and implemented a Q-learner/Dyna-Q solution to the reinforcement learning problem for navigation & trading.
- **Web Search Optimization and Information Retrieval, 2012** – Analyzed page rank algorithms & SEO, focusing on data mining & graph theory. Implemented customization of text search using Topic Sensitive PageRank & Clickstream Analysis in C++.
- **News Recommendation System, 2011** – Offer a tailored reading experience using Logistic Regression & Collaborative Filtering.
- **Scripting Graphy, 2011** - Added scripting abilities (Python) to 'Graphy', a visualization tool for learning theoretic graph algorithms.
- **e-Post Office System, 2010** - Built an online Post Office application using JSP, Servlets, IBM Technologies & MVC architecture.