

DHANANJAY GUPTA

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SUMMARY: Computer Science grad experienced in robust enterprise software and web development. Driven by new challenges, brings in strong problem solving, analytical and software engineering skills along with a can-do attitude.

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|-----------|-----------|--|
| SKILL SET | LANGUAGES | Java, Python, C++, JavaScript, HTML5, CSS, SQL and PL/SQL, Bash |
| | WEB DEV | Node.js, AngularJS, J2EE, Struts, Hibernate, Spring, MVC, MongoDB |
| | TOOLS | GIT, Docker, Jenkins, VIM, Design Patterns, Understand, Agile dev. |

EDUCATION

M.S., Computer Science, **University of Illinois at Chicago**, GPA 3.4/4.0 May - 2019 (Expected)

B.E., Information Technology, Shri Vaishnav Institute of Technology and Science, India June 2017

Relevant Coursework: Advance Software Engineering | Advance Computer Algorithms | Database Systems | Distributed Systems | Object Oriented Analysis and Design | Android Application Development | Applied Artificial Intelligence | Data Mining and Text Mining | Cloud Computing | Web Technologies

RELEVANT EXPERIENCE

ADVANCE SOFTWARE ENGINEERING, UIC

Empirical Analysis of Jenkins Pipelines: April - 2018

- Discovered patterns and trends in various repositories and their continuous integration pipelines. Analyzed groovy syntax and extracted stages, shell script commands, build invocations using different build tools.

Git Repository Analyzer: March - 2018

- Developed a git patch analyzer which does string and syntax level parsing to analyze and generate reports for the repositories written in java. Determines common bugs by analyzing repeated patterns in 'patches' to source code.

DevOps workflow: February - 2018

- Developed a programmatic simulation to the process by streaming repositories from GitHub, uploading each repository to a local GitLab server and triggering the local Jenkins server which builds, tests and analyses repositories using JaCoCo and Understand.

WEB DEVELOPMENT

Online Shopping Web Application: August - 2017

- Created an online shopping environment over multiple categories of products enabling user to create private accounts and store items in an inbuilt shopping cart.

Java Development, SSI, India:

Feb – Oct - 2014

- Developed a Text Editor desktop application and various enterprise web applications using Servlets, JSP, Struts and Hibernate.
- Developed Session Beans, Wrote SQL Queries and integrated them. Implemented triggers, packages, procedures and functions using PL/SQL.

OTHER PROJECTS

Efficiency of Priority Queues:

May - 2017

- Implemented priority queues using arrays, heaps and specialized heaps. Published two papers:
- First, complexity analysis and Second, a way to reduce the time needed in creating the priority queues wherein, using a memory pool significantly reduced the time needed in queue generation by 75%.

Android Development, UIC:

Feb – April - 2018

- Multi-Threaded synchronous game played between two threads to predict a predefined random no.
- An application using Fragments to retain configuration change.
- An app to generate and manipulate list of favorite songs, application to create SQLite database, fetch data using content providers, services and permissions.

Big Data Analytics and Hadoop:

June - 2017

- Implemented MapReduce jobs for variety of analysis on sample data for single node configuration on Cloudera Virtual Machine.
- Extensively used Combiner and Partitioner. Also, worked with PIG for data analysis.

LEADERSHIP AND VOLUNTEER WORK

Training at Lions District Leadership Workshop 2015, The International Association of Lions Club, District 323 G-1

- Trained on Change Management, Communication, Conducting Effective Meetings, Mentoring Program, Creative Thinking, Focused Discussion, Evaluation.

Volunteer work at AWGP and IWWA

- All World Gayatri Pariwar is a living model of a futuristic society, volunteered in organizing several human wellbeing programs, rural education drive and taught underprivileged children.
- Volunteered in organizing IWWA (Indian Water Works Association) meetings.

Participant at the 24th International Management Conclave, 2015

- Training and Lectures on leadership and management by various business leaders from across the globe.

AWARDS AND ACHIEVEMENTS

- **Academic scholarship**, high school, complete tuition waiver for exceptional performance in academics.
- **Academic scholarship** through awarded graduate assistantship at the University of Illinois at Chicago.
- **Distinction**, Trinity College London, Graded Examination in **Music** Performance, classical guitar.
- Stood amongst top 3 positions in **speed writing, Medley Relay Swimming, Poetry competitions**.

EXTRA - CURRICULAR ACTIVITIES

- Sporadic First Chair **Music Performer** (Classical Guitar, Harmonica, Flute), **Performing arts** (drama).
- Completed a 5-year extensive course studying **German Language** securing an “A” grade.