

# Jyotirmay Sharma

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## EDUCATION

University of Southern California, Los Angeles, CA, USA

May 2018 - Present

Master of Science in Computer Science

Guru Gobind Singh Indraprastha University, New Delhi, India

August 2013 - July 2017

Bachelor of Technology in Electronics and Communication Engineering

## RELEVANT EXPERIENCE

Course Producer | Computer Science Department, University of Southern California

May 2019 – August 2019

- Course Producer for CSCI 455, Introduction to Programming and System Design.
- Graded assignments (Designed Assignments) and Final Exam. Helped students with queries and also supervised labs. Worked in a team of 3 with a TA and a grader to help students with queries and also supervised labs.

USC Shoah Foundation – The Institute for Visual History and Education | Video Archiving Assistant

May 2019 – Present

- Manage digitization of tapes as a Video Archiving Assistant. Worked in a team consisting of 5 people. Responsible for digitizing analog video tapes and storing digitized tape content on server using in house software.

Accenture | Associate Software Engineer

December 2017 – May 2018

- Performed Unit testing, Integration Testing, Sanity Testing on various web applications using **Selenium Web Driver**.
- Automated Web Applications using Selenium WebDriver and checked whether web applications were working as per requirement.
- Automated Computer Desktop Applications and Web Applications using **Unified Functional Testing (UFT)**.

ABGO Design | Intern (Front End Development)

June 2017 – September 2017

- Developed and maintained a website, **Technologies employed - HTML, Bootstrap, jQuery and CSS**. Changed layout of websites as per client's requirement. Used PHP for maintaining backend and adding new features to client's website. The website was an online shopping website for sunglasses, eyeglasses and contact lenses.

## SKILLS

- **Languages** – C, C++, Java, HTML, CSS, JavaScript, PHP, Swift, MATLAB, SQL, Python.
- **Software** – Eclipse, Microsoft Office, Code::Blocks, MATLAB, Tanner EDA, UFT, Brackets text editor, Xcode.
- Experienced with Bootstrap, jQuery, Node.js, REST APIs, Unreal Engine, Blueprints, crawler4j, Google Cloud Platform, Hadoop, MapReduce, Apache Tika and Solr.

## RESEARCH

- [Excellent Electromagnetic Interference Shielding Effectiveness of Chemically Reduced Graphitic Oxide Paper at 101 GHz, EPJ B](#).
- [Computational Analysis of Edge Detection Operators, International Journal of Applied Sciences](#).

## PROJECTS

- **Event Search and Ticket Booking Websites. Technologies used - Node.js, jQuery, Bootstrap, JavaScript, PHP, HTML, and CSS.** Developed two versions of ticket booking website to search and book tickets for events in USA and Europe. Both versions of website are used to look up different genres of events (like sports, music etc.) and allows user to book tickets via Ticketmaster website - [Project1](#) and [Project2](#). Used REST API's to get data for events.
- **iOS App for Event Search and Ticket Booking. Technologies used - Swift, REST APIs and Node.js as backend.** It is the App version of abovementioned ticket booking website. I leveraged Ticketmaster, Spotify, Songkick, GCP and geolocation APIs for **Event Search App**. [Video for app](#). The Event Search app and website can be used in real life to book events.
- **Social Networking Website. Technologies utilized - PHP, HTML, jQuery, JavaScript and CSS.** It allows user to login and upload some interesting moments of life in audio/text accessible to other users - <http://54.188.42.232/>.
- **Web Crawling using crawler4j (Java). Technologies used - Java and crawler4j.** Crawled the Mercury News website using crawler4j to make a report of links on website and content type of pages and total number of fetches succeeded and failed. I crawled 20,000 pages.
- **Basic Search Engine. Technologies Used - Java, Python, Apache Tika and Solr.** Created basic search engine using Solr and added autocomplete, spell-correction and snippet generation. Utilized Apache Tika to parse web pages to create a list of words required for spell correction. Configured suggest features in Solr for auto-completion. Used NetworkX library in Python to determine **page rank**.
- Built **inverted index file** from Mercury news Corpus using **Map Reduce on Hadoop on Google Cloud Platform**.
- **Role-Playing Game – Kingdom of Nature. Technologies Used - Blueprints (Unreal Engine 4) and C++.** The game plot requires user to traverse through a maze with obstacles (such as AI) and gather power-ups to kill main antagonist [Video](#).
- Deployed a **Human Life Detection in Natural Calamity bot using Arduino Uno microcontroller and PIR Sensor**. Human Life Detection project was a prototype to be deployed in Natural Calamities to save human and animal lives.

## EXTRACURRICULAR ACTIVITIES

- **Soccer (Nationals – University Team, GGSIPU and Zonals – Runners Up), Inter IP Football Tournament (Runners Up) and MSIT – Intramurals Winner (Soccer). Advanced Soccer Intramurals Winner USC.**
- Active member of **Rotaract Club** and Volunteered for Physical Education Federation of India. 30 days **Digital Marketing Internship** - Eyedo.in. **Event head** for College Environmental and Technical fest and coordinated MSIT annual sports meet.