

# ROHAN PATEL

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## SUMMARY

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- Graduate student looking for full time opportunities in software engineering and full-stack development.
- Experience with Python and Java, along with a strong understanding of CS fundamentals and object-oriented design.
- Tech enthusiast with a wide skillset, and extensive experience in web application development.

## EDUCATION

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**Master of Science, Computer Science**, San Francisco State University (GPA: 3.60)

**August 2017 – June 2019**

**Bachelor of Technology, Information Technology**, Manipal Institute of Technology

**July 2012 – July 2016**

## COURSES

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Algorithms, Software Engineering, Web Development, Machine Learning, Data Mining, Database Management, Operating Systems

## TECHNICAL SKILLS

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**Languages:** Python, Java, C, Javascript  
**Web Technologies:** HTML, CSS, ES6, Node.js, Express, React, Redux, Bootstrap  
**Databases:** SQL (MySQL, PostgreSQL), NoSQL (MongoDB)  
**ML / Data Science:** NumPy, Pandas, Scikit-learn, NLTK, Jupyter Notebook (IPython), Tableau  
**Others:** Git, HTTP, REST API design, MVC, Agile/Scrum, Heroku, AWS, Jira

## PROJECTS

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**Hearts Card Game** | [GitHub](#) | [Website URL](#) | September 2018 – December 2018

- Real-time, multiplayer, online application to play the card game of Hearts. Built using Node.js, Express, PostgreSQL
- Complete logic of the standard hearts game has been implemented and tested. Game gets updated in real-time in response to user events and interaction with the game using socket.io, and games states are persisted in the database.
- Game also contains a chat feature that allows players to chat with each other in a game room.

**HTTP Web Server using Java** | [GitHub](#) | August 2018 – September 2018

- Developed a multi-threaded web server in Java capable of a subset of the HyperText Transfer Protocol (HTTP).
- Server can parse HTTP requests (like GET, PUT, POST and DELETE), authenticate them, load mime types, send appropriate responses, and run CGI scripts.

**SMS Spam Detection using Machine Learning** | [GitHub](#) | Feb 2018 – May 2018

- Developed an sms spam filter using Python and supporting ML libraries like pandas, scikit-learn and nltk.
- Main steps involved feature engineering, text processing, text classification, parameter tuning and cross-validation.
- Final classification models gave an accuracy of 0.98 on the UCI SMS dataset and 0.888 on the DIT SMS Spam dataset.

## EXPERIENCE

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**Metro College Success Program (SF State) | Graduate Assistant – (Software Development + Data Analysis)**

San Francisco, CA | September 2018 – August 2019

- Worked on a collaborative project between the CS dept. and Metro College Success Program at San Francisco State University.
- Developed Python scripts for data migration and manipulation between Salesforce, PeopleSoft CS and BANNER databases.
- Developed data visualization charts using Tableau that are now being used by the leadership of Metro to improve student success rates.
- Provided support for database design, management and maintenance in Salesforce.

**Zumigo | Software Engineering Intern, DevOps**

San Jose, CA | June 2018 – August 2018

- Worked primarily on enhancing the company's system monitoring solutions.
- Worked on Zabbix - an open source monitoring tool - and wrote various automation scripts to send email alerts using Zabbix, execute remote commands and create monitoring solutions.
- Set up a centralized logger system using the ELK stack – Elasticsearch, Logstash, Kibana – to help analyze server logs better.