

# NISARG PATEL

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## EDUCATION

### MS, Computer Science (GPA: 3.8)

Aug 2017 - Aug 2019

State University of New York at Binghamton, New York

### BE, Computer Engineering (GPA: 3.6)

Jul 2009 - Jul 2013

Sardar Vallabhbhai Institute of Technology, Gujarat, India

## RELEVANT COURSEWORK & RESEARCH INTERESTS

Database Systems	Programming for the Web	Algorithms
Object Oriented Programming	Programming Languages	Computer Architecture
Operating Systems	Distributed Systems	Information Security
Data Analytics, Distributed Data Intensive Computing, Cloud Computing, and Dynamic Web Technologies		

## TECHNICAL SKILLS

<b>Programming</b>	: Java, JavaScript, Typescript
<b>Database</b>	: Oracle, MySQL, Druid, Mongo DB
<b>Web Technologies</b>	: Angular, HTML, CSS, jQuery, HighCharts, Bootstrap
<b>Tools</b>	: Eclipse, Maven, VS Code, Tomcat, SQL Developer, Git, SVN

## PROFESSIONAL EXPERIENCE

### Teaching Assistant for Algorithms Course at SUNY Binghamton

Jan 2018 – Present

- Provide **solutions for assignments, projects and exams**, and prepare course material
- Hold regular **office hours** and **assist students** to resolve doubts related to homework or course material
- **Grade homework and exams** accurately, consistently, and on time
- **Make regular announcements** related to course on blackboard

### Software Engineer-Product Development at Harman (Samsung)

Apr 2016 – Aug 2017

- Developed and designed **dashboard, custom reports, and ad hoc queries** for **huge volumes of network data**
- Development of **Angular2+ Components, Modules, Custom Directives, Pipes, Routers, and Services**
- Installed & Configured **MySQL, HDFS, Kafka, Druid, and Zookeeper** in a distributed cluster-based environment
- Added **new dimensions, metrics, and columns to the business model** layer to fulfil the requirements of the users
- Used HighCharts library extensively to develop complex **graph reports for huge volumes of data**
- Generated **database design** to the highest level of scalability and performance

### Software Engineer at Tech Mahindra Ltd. (Client: AT&T)

Sep 2013 – Mar 2016

- **Coded, designed, and tested** for assigned modules, live defects with strict timelines, followed **agile methodology**
- Developed custom **SQL queries and performed testing and data analysis** in an Oracle DB environment
- Participated in peer and **team meetings for code review** and analysis
- Worked on **Java, Shell Scripts, SQL**, and ESP Workstation

## **SIGNIFICANT ACADEMIC PROJECTS**

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### **Retail Business Management System**

**Fall 2017**

- Developed database from scratch for a typical retail business setup comprising of products, customers, employees, and purchases
- Developed rest web services using spring and maven to send data to frontend using JSON, Frontend was developed in Angular 5 using Angular CLI, Bootstrap, and jQuery
- Developed various triggers and procedures to maintain logs automatically, keep an eye on inventory, and place order for unavailable products

### **Mini Bash Shell, Linux System Call, Linux Kernel Module, Custom Named Pipe**

**Fall 2017**

- Developed a mini shell that can execute command with background functionality using fork and exec in C language
- Implemented a Linux System Call to read kernel time and report to user space
- Developed a custom kernel module, a character device which acts like a named pipe of fixed size

### **Transforming Printed Documents Directly to Database**

**Fall 2013**

- This project is based on image processing wherein the user must input the scanned copy of the mark sheet in desired format, the software will then process the document and automatically detect various fields and extract appropriate data from it, we then stored this data in database for further use
- Java and Oracle were used as core technologies

## **AWARDS / RECOGNITIONS**

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- Going the Extra Mile Award (Awarded to most assiduous employee of the team)
- Place on the Wall of Fame (Awarded to top 5 employees every quarter)
- Client Appreciation (For Automations, reducing execution time by 30%)