

NISARG PATEL

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EDUCATION

MS, Computer Science (GPA: 3.9)

Aug 2017 – Dec 2018

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	Machine Learning

Data Analytics, Dynamic Web Technologies, Distributed Data Intensive Computing and Cloud Computing

TECHNICAL SKILLS

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

PROFESSIONAL EXPERIENCE

Graduate Research Associate for United Health Services at Binghamton

May 2018 – Present

- Work with **Business Intelligence at UHS to perform analytics** for Improve our Care, Patient Satisfaction, Financial Performance and Operational Metrics data for various service lines
- **Develop dashboards** using **PHP & JavaScript** with trending data, charts and demographic charts with drill downs, utilizing data aggregation from SQL statements.
- Created **tables, indexes and stored procedures** as a part of the data migration initiative
- **Consolidate and enrich data** for inpatient and outpatient from different systems to do analytics

Teaching Assistant for Algorithms Course at SUNY Binghamton

Jan 2018 – May 2018

- 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

- Develop and design **dashboard, custom reports, and ad hoc queries** for **huge volumes of network data**
- Develop **Angular2+ Components, Modules, Custom Directives, Pipes, Routers, and Services**
- Install & Configure **MySQL, HDFS, Kafka, Druid, and Zookeeper** in a distributed cluster-based environment
- Add **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**

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

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

- 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%)