Maninderpal Singh

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Education

School	Bachelors of Science	Graduation
San Jose State University	Computer Science (3.3 / 4.0)	Dec, 2017

Work Experience

Software Engineer	InfoSys	March, 2018 - Current

Developed Web App to handle complaint system of entire Company (SAPUi5, Javascript, Odata)
- Handled operation based on User role, for example admin vs basic user.
- Validate data before send to Server side.
- Used MVC Architecture for data binding.
- Successfully deployed the application for production using SAP MII.

Software Engineering Intern	Western Digital (San Jose)	June, 2017 - August, 2017

Developed **full-stack application** for automating P-value calculation and alerting inspectors via email **(R, PHP**, **MYSQL, HTML, Javascript** and **Apache Tomcat)**
- Developed analytical dashboard to help monitor P-value for vendor data in real time.
- Wrote multiple parsing scripts for wrangling excel sheet data and storing it in MySQL.
- Automated P-value calculation using One-Way Anova Analysis in R.
- Successfully deployed the application for production using Apache Tomcat.
- Integrated application with Fusion charts and Highchart for visualizing data in real time.
- Decreased calculation time for P-value by 95% by automating data parsing and by optimizing queries.

Skills

Languages: C, C++, JAVA, MySQL, Python, JavaScript , PHP, Perl, HTML, SAP ABAP, NOSQL

Others: Data Structure, Object Oriented Design, REST, MVC Modeling, MySQL Database, DB2 Database, Multithreading, Android Development, Linux, Git, Django, SAPUi5, BI, HANA Database.

Projects

Banking System (Group project) JAVA, MySQL, JAVA Swing, Spring framework, **REST API, JDBC, MVC**
- Functionality: Create account, search customer's, deposit, withdraw and transfer.
- **Multi Thread and Thread Safe** application for money transactions.

Personal Search engine (Group project) C++
- Build text document based personal **Search Engine** (search with any keyword).
- Console based output application (Output in meaningful short paragraph).
- Implemented **Search** algorithm based on keyword frequency, popular documents, document frequency.
- Project avalible at https://github.com/moneysingh1991/cs144FinalProject_git

Grocery shopping Website (Major Group Project) Django, **Python**, **MySQL**, **Javascript, Google Maps API**
- Implemented user authentication feature using token.
- Created procedure in SQL Database.
- Grocery delivery by drone and real time drone tracking using **Google Map API**.
- Project available at https://github.com/SaajanBariana/GroceryStoreDroneDelivery

Home Automation Android App (Individual Fun Project) Java, **Spring framework**, **REST API**, **MySQL**, **Tomcat, Linux**
- **Android App** to control Home Electronic switch.
- **Automate** home light with time and control from a APP.
- Multithreaded application to run background process on APP and Server.
- **Accomplished** : Learned about sleep Pattern and electricity saving.