

## Education

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

## Work Experience

**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

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

## 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.

**Student class registration system (Major Group project)** Php, MySql, JavaScript, HTML, CSS, AWS

- Full functional website for classes registration
- Build **Pi Chart** to check progress.
- Feature – add, drop and search for classes.
- Additional feature – check prerequisite before sign up for classes.
- Project available at [https://github.com/moneysingh1991/student\\_registration-website](https://github.com/moneysingh1991/student_registration-website)

**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 available at [https://github.com/moneysingh1991/cs144FinalProject\\_git](https://github.com/moneysingh1991/cs144FinalProject_git)

**Grocery shopping Website (Major Group Project)** Django, Python, MySQL, Javascript, Google Maps API

- Grocery delivery by drone.
- Live drone tracking using **Google Map API**.
- used for development.
- Project available at <https://github.com/SaajanBariana/GroceryStoreDroneDelivery>

**Home Automation Android App (Individual Fun Project)** Java, Spring framework, REST API, MySQL, Tomcat, Linux

- **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.