Hanuchandra Donavalli

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ACADEMIC PROJECTS

Twitter, A Facebook App

Development: Java, JSP, Servlets, Facebook JavaScript SDK, HTML, CSS, Google Cloud Platform.

- Built in Java using JSP, Servlets and Facebook API. Deployed on Google App Engine.
- All the user data and tweets are stored in Google Data Store. Used OAuth on Facebook for user authentication.
- App functionalities include login, composing a tweet, posting the same on time line and sending it to a friend.
- An insight on how Facebook API is used on top of conventional Java code. Explored and experimented with various functionalities and features of the Google App Engine.

GitHub: https://github.com/Hanuchandra/Twitter-Facebook-App-

Motion Detection using Camera Module fixed to Raspberry Pie Associated with Amazon S3

Development: Python Cloud Storage: AmazonS3

- Group Project developed in Python. The camera module detects movement, alerts the user, takes the picture and upload the same to the Amazon S3.
- It was my contribution and idea to add the functionality which takes the picture and uploads it into the S3.

Photo Site (Rails Project)

Development: Ruby on Rails, HTML, CSS Cloud Deployment: Amazon EC2. Data Base: SQLite

- Developed in an MVC (Models, Views and Controllers) architecture. An active URL was created using routes in Rails.
- Used database migrations (SqLite Data Migration Files to preload the data).
- Deployed on an Amazon EC2instance and applied the usage of elastic IPs and data on to S3 using Amazon Machine Image (AMI).

GitHub: https://github.com/Hanuchandra/Photo_Site-Rails-Project-

Image Encryption by Zigzag, Partitioning & Swapping with Steganography (LSB algorithm)

Language: Java

- Implemented image processing techniques and algorithms like Zigzag, Partitioning, Swapping and Least Significant in a sequence to achieve utmost confidentiality and security.
- Converted image file into binary, partitioned into a number of partitions (Number as per the Key). Zigzag technique applied on each partition and swapping is done.
- Affecting the image's meta data, it cannot be opened after the encryption.
- LSB algorithm used to store a secret message in the image bits.
- Decryption involves applying all the techniques in opposite order to retrieve the image and the embedded text.

GitHub: https://github.com/Hanuchandra/Image-Encryption-Zigzag-Paritioning-Swapping-Steganography

TECHNICAL SKILLS

Programing Languages: Java, C++, Ruby on Rails (MVC) & Python.
Cloud Platforms: Amazon AWS (EC2 & S3), Google App Engine (GAE) and Heroku.
Relational Data Bases: Hands on experience on MySQL, PostgreSQL, SqLite.
Non-Relational Data Base: MongoDB.
Web Technologies: HTML5, CSS, Java Script, React & Node Js.

EXPERIENCE

Internship at HCL, Hyderabad, India, Summer, 2017.

- Developed a Java application "Virtual Class" as team. A management system collaborating trainers and students.
- Implemented Student, Faculty and admin modules. Various functionalities like class registration, attendance and quiz.
- Contributed to the team being a team lead, implementing the admin module and class registration functionality.
- Responsibilities include exposure to Company's projects' bug fixing, supporting a non-technical team by querying data from the company's data base, a hands-on experience on Relational Databases like Oracle & MySql.

EDUCATION

MS Computer Science, California State University, East Bay, Hayward, CA. GPA: 3.89. Expected Graduation: 05/2019

B. Tech, Computer Science & Engineering, GITAM University, Visakhapatnam, India. GPA: 8.9/10. Graduation: 06/2017