SVCE-ACM Student Chapter Report

2019-2020

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Team Head: Web	Yuvaraj J
Team Head: Events	Kaushik Girirajan

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Inauguration

Conducted on 16th August, 2019

The 16th of August, 2019, marked the inauguration of the ACM SVCE Student Chapter for the academic year 2019 – 2020. The Chief Guest for the event was Mr. Chandrasekhar Balasubramanian, Business Head of Futurnet, who enthused the audience with realistic business strategies that are very much essential to thrive in the corporate world.
He concluded his speech after having an interactive Q&A session with the audience.

The Ideathon

Conducted on 3rd September, 2019

Great innovations are obtained from great ideas. We conducted the ideathon competition where about **15 Teams of nearly 70 Students** from all corners of the college presented their ideas and the various factors that influence it:

- The technology behind that idea
- The business values
- The social impact
- The viability and feasibility of the idea

All the ideas were judged by reputed faculties at our institution. This event served as a platform for people to show out their ideas, get valuable suggestions and reviews from the judges and spectators as well as served as a stepping stone to start building the ideas as completed products.

Web App Development with Django and PostgreSQL

Conducted on September 9, 2020

This hands-on workshop was conducted for women of all year and department in collaboration with **Mad Street Den**. 39 students enroll were given a brief understanding about the python Django framework and were taught to design database models with PostgreSQL. This enabled them to further learn the nuance to build REST APIs and were given real time use cases to solve and go about. There was also an elaborate discussion about women in STEM.

Speakers:

1. Ms. Anitha Natarajan (SDE, Mad Street Den)
2. Ms. Priyanka BS (SDE, Mad Street Den)

Yet Another Hackathon: 2k'19

Conducted from September 21 to 22 September, 2019

Hackathons are where crazy ideas turn into reality. We hosted our flagship event for this year, a massive hackathon - Yet Another Hackathon! 2K19 or YAH! 2K19 as we like to call it. This is the second edition of the YAH. YAH!2k18 had around 300 registrations of 100 teams. The second edition of YAH! had over 700 registrants spanning 200 teams across the nation. We shortlisted the top 30 teams based on their submitted abstracts and their development portfolio (GitHub, LinkedIn etc.).

We had domains ranging from "Healthcare and medicine", "Eco-friendly technology", "Road Safety", "Public Service" and "Finance and technology".

Before commencing the hackathon, we hosted a small icebreaker session to help the participants to network and make new contacts. After all, a hackathon is all about building a community. Besides, all work and no play make for a very dull Jack. So, we interspersed our hackathon with several amusing activities.

While they were optional, all the participants dived into them to take their mind off things. The Second Edition of our hackathon was hosted at **COVE**, which resides at the heart of the city**, Kotturpuram, Chennai**. The participants were refreshed all day long by our Refreshment Sponsors- **Chai Kings, The moose Studio and Sri Mithai**. Impressive projects were applause by the mentors and they were hired as interns by our sponsors. We had the privilege of companies like **Mad Street Den, Komaparify, Dellner, Manya, Exter to sponsor our event**.

Our judging panel consisted of a hackathon veteran and Director of Accenture Mr Srivatsan Padmanabhan, Mr Parivalan Manoharan from Exeter and Mr Russo Tamilarasan from Wipro.

The overall winners of the hackathon developed an application that redefines offline communication using soundwaves. We had other prizes like the best UI, most feasible project etc. We had a poll among the participants to select the people's award with a **total prize pool of Rs. 50,000**. On the whole, YAH! 2k19 was the platform to seek innovative people, new technology, fresh ideas and simply fun.

The Tech Quiz

The Tech Quiz was based on technological trends and facts was conducted on 1st October, 2019. It was divided into 4 different rounds. The quiz started off with the Quizmaster, explaining the rules and the format. The first round consisted of questions over a variety of fields which have been in the news recently. The questions in this round related to everything from AMDs recent Zen Architecture and the uproar behind it to cryptocurrency millionaires, Boston Dynamics Spot Mini robot and the recent Meltdown and Spectre vulnerabilities. The second round was a logo round with logos that the teams were asked to identify. This round was followed by a Connect and a debugging round where in the teams were presented with a series of images and were asked to connect them to a specific language, company, technology or person. Overall, there were 40 teams of 2 evenly spread across the all years. A majority of the participants praised the selection of questions and stated that they acquired new knowledge that they wouldn't have normally encountered.

A December of Algorithms (2020)

Conducted for the whole of December, 2019

A December of Algorithms was a yearly event initiated by the SVCE ACM Student Chapter from 2018 to allow people to commit to coding regularly, and learn Git in the process. **The goal is for participants to complete 31 algorithms within a span of 31 days.** There were **230 participants from all over the world** from all backgrounds. The difficulty level of these algorithms ranges from easy to hard, making it possible for everyone to start coding. At the end, they will commit their changes to the Git repository hosted on **GitHub** and earn a certificate.

Link: https://github.com/SVCE-ACM/A-December-of-Algorithms-2019

Hour of Code

he SVCE ACM Student Chapter conducted a workshop for 40 Students of grade 11 at a Schram Academy in Maduravoyal, Chennai on the 9th of December in a school, this initiative is a part of Hour of Code to help students with fundamental programming. This helped many young minds to have an idea about the field of computer science which helps them make clear decisions about their career. This helped the students secure knowledge about programming apart from their school curriculum. We used material from code.org to introduce python to the students.

Actively Specialized Support Group (ASS-G)

Active Specialized Support Group (ASS-G) was started as an effort to combat a lack of technical diversity within our college. ASS-G runs weekly workshops for students from all departments across the college to equip them with Advanced Python Development skills for their careerabilty. Our net participation count is 300 students.

Participants:
1. CSE 2nd year – August, 2019 – December, 2019
2. ECE 3rd year – January, 2019 – Present
3. Automobile 3rd Year –January, 2019 – Present

IoT and Machine Learning Workshop

Conducted from 9th to 12th March, 2020

The 4 Day Workshop on IoT and Machine Learning was conducted in collaboration with United Intelligence Club (UIC) was designed to give students a clear architectural understanding of the application of big data, IoT and Machine Learning in our current world. The workshop comprised of lectures and hands-on collaboration between lecturers and participants who were mostly from the Automobile and Mechanical Backgrounds. Participants were later awarded certification as an appreciation for their participation and to stimulate them to integrate modern technologies in their forthcoming projects.

CodeStorm 2020

Code Storm was a programming competition for all SVCE students aimed at creating a healthy and competitive atmosphere for students to showcase their specialized skills. The preliminary pen-paper round consisted of 25 questions to be solved in a 1-hour window. From the 250 students who participated, the best 30 rounds were for shortlisted for the final round. This on-campus round received passionate participation from all departments across all years of study. Participants had 3 hours to solve 40 questions. One of their hurdles was to not just solve any question but to pick intelligently and make the best of their confined time.

Final Destination

Conducted on 7th March, 2020

We held open discussions with the first, second and third years concerning higher education prospects, on-campus job placements and developing new skillsets for the Tech Industry. These sessions, administered by senior students and alumni, are intended to support the students to gain a greater insight into what they need to do and how they can equip for their career goal. The sessions, which typically last an hour, are targeted at small groups of about 50 at a time to allow for a personal touch and more interaction. Over recurring sessions, we have benefited nearly 400 students with everything from resume advice and acing their interviews to selecting universities and preparing for the GRE.

Git Workshop

Conducted on 25 February, 2020

Each member of the dev team set up their environment, cloning the repository: https://github.com/ASS-G/Git-Training-Kit/
This workshop is a practical guide to train on a complex command using git rebase. Everyone was allowed to read the documentation or to ask help live. We started the workshop together, rebasing the first paragraph as a first example. This was to make sure everyone understood the rules and the methods to go along with the rest of the workshop. Then, everybody had to complete the workshop. Using the git rebase command, and more particularly the — interactive option.

Objectives of the Workshop:
- Define version control
- Identify what problems it solves for developers
- Define a repository
- Create a git repository
- Create a git branch
- Identify the purpose of the staging area
- Stage changes
- Commit changes
- Resolve merge conflicts
- Reset git commits
- Differentiate between a local repository and a remote repository
- Synchronize a local repository with a remote repository using git with GitHub

Techno Fair

Techno fair is the flagship event of **SVCE ACM-W Student Chapter**. It was conducted **exclusively for women** of all departments with a total of 100 participants. The preliminary round was **Deciphering the Code** which introduced participants to **Data Encryption**, from which the best 20 women were shortlisted. The final round was a rapid-fire quiz round where participants had to answers questions that are based on **successful tech-moguls, predicting program outputs etc.,**

Technophilia

Technophilia is an event of **SVCE ACM-W Student Chapter exclusively for women.** It was a programming competition aimed at recognizing women students in the Computing Field. The competition was held for women of all areas of engineering who showed interest in software development. The preliminary was a quiz round where participants had to **predict program outputs, analyze code-base performance, bash scripting, etc**., from which the best 50 women were

shortlisted out of a total 120 participants. The final was unparallelly unique as the shortlisted candidates were ask to program algorithmic problems in a programming language unknown to them (mostly **GoLang** and **Rust**) with only a cheat sheet. The top two successful participants were later awarded with Certificates and Prize money.

Testimonials

"My summer at ACM Summer School at IIIT-B was an amazing experience. For a period of three weeks, we were immersed into an intensive learning environment with some of the leading forerunners in the domain of machine learning. The topics that were covered ranged from the basics of linear algebra to advanced topics such as reinforcement learning. Our sessions consisted of theoretical learning followed by practical sessions to further strengthen the topics. Furthermore, the sessions handled by industry professionals such as the CEO of Microsoft India Research Mr. Sriram Rajamani and vice president of Mindtree helped to serve as a bridge between application and theory."

- Anaikar Mohamed Anan, Attended ACM Summer School for Lorem Ipsum

"I am indeed gracious to have received this chance to attend ACM Winter School for Hybrid Cloud in IISc, Bangalore on January 2020. I would like to thank ACM India and IISc, Bangalore for presenting us with this amazing opportunity. The ecosystem and community of experienced practitioners drove me to seek and use cloud systems even after winter school."

- Krishnakanth Alagiri, Attended ACM Winter School for Hybrid Cloud