

Sivakami Subramaniam

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EDUCATION

Sri Sairam Engineering college, Affiliated to Anna University

B.Tech. Information Technology

CGPA: 8.29 / 10.0

Chennai, India

May 2018

NSN Matriculation Higher Secondary School

Computer Science, Mathematics, Physics, Chemistry

Score: 93.8%

Chennai, India

May 2014

PROFESSIONAL EXPERIENCE

Member of Technical Staff, Zoho Corporation

Chennai, India

Oct 2018 – Nov 2021

- Worked as a Member of Technical Staff on the Zoho Creator team, that provides a platform to build low code applications for organizations.
- Developed a feature to replicate customer applications across various data centers in real time to ensure consistency across all data centers and eliminate the time spent by customers on developing and testing the application changes. This led to a 33% increase in customer base, 100% retention of existing customers and an increase in revenue.
- Designed and implemented user access management system for the creator platform to ensure that the right individuals access the right resources. This improved safety and provided better user experience.
- Provided API support for the applications built using Zoho Creator platform to improve the customer's ease of doing business by enabling them to integrate their applications with other Zoho applications.
- Experience letter - https://github.com/eclairfroyo/Sivakami-College-Application/blob/main/Zoho_Experience.pdf

Associate AI Engineer, Blackstraw.AI

Chennai, India

Jul 2018 – Oct 2018

- Collected 5 TB of structured and unstructured data from disparate sources using Java.
- Prepared and validated the data to ensure accuracy, completeness, and uniformity.
- Researched and analyzed the data to support statistical analysis by the business using Apache Superset.
- Researched various machine learning and computer vision algorithms that could potentially be used to accurately identify the characters present on printed documents.
- Experience letter - https://github.com/eclairfroyo/Sivakami-College-Application/blob/main/Blackstraw_experience.pdf

Application Engineer Intern, Amazon Inc

Chennai, India

Sep 2017 - May 2018

- Worked as an Application Engineer Intern on the Amazon digital pricing team.
- Built a data pipeline that produced key performance metrics of Amazon's digital products.
- Built data visualization dashboards to visualize the generated metrics in real time, saving 380 engineering hours per year that was previously spent on generating the reports manually.
- Optimized the retrieval of large volumes of data by migrating to a flat file system from a data warehouse, which reduced the querying time from 180 minutes to 20 minutes.
- Experience letter - https://github.com/eclairfroyo/Sivakami-College-Application/blob/main/Amazon_Experience.pdf

RELEVANT PROJECTS

"Price Predictor" Machine Learning Hackathon, Amazon Inc

Chennai, India

Jan 2018

- Developed a Deep Learning model using Random Forest algorithm to predict the competitive price of various Amazon digital products with an accuracy of 90%.
- Analyzed a dataset of 100,000 Amazon digital product sale records to determine the right set of attributes needed for the deep learning model.
- Used Python, pandas, NumPy, Scikit-learn to prepare the dataset and train the model.

"Attendance Tracker" Android App, Zoho Corporation

Chennai, India

Apr 2017

- Developed an innovative attendance tracker android application for an organization, that will mark the in time and out time of employees based on their mobile phone's GPS location.
- Project URL - https://github.com/eclairfroyo/Attendance_Tracker_Android_App

CONFERENCES & PUBLICATIONS

Drowning prevention system-at sea level

S. Sivakami, K. Janani, K. Janani, R. Ranjana. *International Conference on Computer and Communications Technologies* (IEEE - ICCCT), 2017.
IEEE journal URL - <https://ieeexplore.ieee.org/document/7972308>

Drowning Prevention System

S. Sivakami, K. Janani, K. Janani, R. Ranjana. *International Conference on Signal Processing, Control and Data Analytics* (ISSRD), 2016.
Conference certificate - https://github.com/eclairfroyo/Sivakami-College-Application/blob/main/ISSRD_2016.pdf

[Pending] Drowning Detection and Prevention System

Sivakami Subramaniam, Lakshmanan Palaniappan, VKG Kalaiselvi. *International Conference on Computational Science and Technology* (IEEE - ICCST), 2022.

SKILLS

Organization skills

Android application workshop

- Conducted a two-day workshop on android application development that was attended by over 200 second and third engineering students from the Information Technology department of Sri Sairam Engineering College in 2017.
- Students were taught to build simple android apps to create forms, store data in memory card, send notifications

Competitive programming event in Symposium

- Led a team of six students to organize a competitive programming event as a part of the National level technical symposium conducted by the Department of Information Technology, Sri Sairam Engineering College.
- Conducted the first round using an online platform and shortlisted the top 20 teams from over 100 teams for the onsite round.
- Curated problems for the onsite round, judged the candidate's solutions and helped to select the winners.

Programming & Software skills

Programming languages: Java, Python, C, JavaScript, Android

Version Control: Git

Backend framework / Database: MySQL, Redis, Memcached, Struts, Pandas, NumPy, Scikit-learn, Pytorch.

HONORS

Won the first prize in "SQL Scholar", a SQL programming event conducted by the Department of Computer Science & Engineering, SSN College of Engineering as part of the National level Technical Symposium in 2015.