

Sohan Kalva

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EDUCATION

Carnegie Mellon University

Bachelor of Science in Information Systems

Minors: Computer Science, Business Administration

Pittsburgh, PA

May 2021

- **Relevant Coursework:** Data Structures in C, Probability Theory, Game Theory, Business Systems Programming, Machine Learning, Application Design and Development, Microeconomics, Data Science, Benefit Cost Analysis

RELEVANT SKILLS

Technical: Python, Java, HTML, JavaScript, COBOL, C, Cybersecurity Principles, MySQL, MongoDB, React Native, Ruby on Rails, Git, Docker, Jenkins, Gradle, AWS, D3

Certifications: Oracle PLSQL, CCNA ICND1, MTA IT Infrastructure Certification

RELEVANT EXPERIENCE

CapitalOne | Mclean, Virginia(Remote)

Engineering Intern – Operations

May 2020 – Aug 2020

- Created a containerized data visualization dashboard application through the use of React, D3.js, AWS EC2, MySQL, Redis, and Docker
- Developed an machine learning algorithm designed to predict fail-overs to minimize sever downtime if one were to occur

Verisign | Reston, Virginia

Engineering Intern – Operations

May 2019 – Aug 2019

- Created a web analytics dashboard using Splunk to assist team in troubleshooting and analyzing website usage across the globe
- Automated the use of their Monitoring Application using a combination of Jenkins, Gradle, Docker, and Ansible

ME Group | Pittsburgh, Pennsylvania

UI and Database Developer Intern – Application Development

May 2018 – Aug 2018

- Developed the user interface for company's mobile application using React Native and FramerX
- Configured backend firebase database and created security rules for the database
- Linked firebase database to native app and managed content through Flamelink CMS

PROJECTS

A&M Bakery

Jan 2019 – May 2019

- Designed a normalized and generalized structure (ERD) for modeling the data
- Developed full stack web application using Ruby on Rails to help govern and manage data, customer communication and booking
- Used MiniTest and Cucumber to create a complete testing suite with full coverage
- Utilized product management skills to understand client needs and required business logic

Containerized Solution Through Docker – Research Project

May 2018 – Aug 2018

- Created Docker Images specific for in-class labs and a method to automate the initialization of containers depending on the needs of the students in class
- Implemented Ansible to automate the creation of containers of Docker images on digital droplet

Website Development- Prantel's Bakery Shop

Mar 2018 – Apr 2018

- Redesigned shop's web application resulting in an improved user experience and a more appealing user interface

Named-Data Networking (NDN) vs Current IP Network -Academic Project

May 2017 – Aug 2017

- Compared Network Security/Content Access in a NDN to the current TCP/IP model
- Simulated a man in the middle attack on both networks and analyzed the amount of time taken to retrieve packets in both networks

ORGANIZATIONS

CMU Sahara – Bollywood Fusion Dance Team | Captain '20, Captain '19, Assistant Captain '18

Bhangra in the Burgh – Nonprofit Dance Competition | Liaison Chair '18

SX2 Dance Academy – Bollywood Fusion Dance Academy | CEO & Founder