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OBJECTIVE:

Aspiring to pursue a Master's in Computer Science specializing in Systems and Architecture, researching to engineer data-intensive systems and fuel its evolution. Post this program, I want to start my career by working for a startup to acquire a broadened scope of learning. In the long run, I intend to leverage my experiences to set up a startup in India that engineers next-generation products and services to address problems faced by developing countries.

EDUCATION:

B.E. Computer Science and Engineering, PSG Institute of Technology and Applied Research (PSGiTECH), Coimbatore

CGPA: 8.29

2015 - 2019

RELEVANT COURSES:

Operating System, Computer Architecture, Grid & Cloud computing, Graph theory and Applications

WORK EXPERIENCE:

HPE Research and Development

System Software Engineer (Research)

Jul 2019 - Present

- Collaborated and developed the next generation Web Server NonStopHTTP(NSHTTP) into the NONSTOP KERNEL(NSK), NonStop systems, a 100% fault-tolerant systems for mission-critical environments.
- Streamlined the entire design of the manageability framework through novel configuration techniques in NSHTTP (into an unconventional SHARED-NOTHING architecture of the Nonstop Kernel).
- Designed and developed a migration tool to replace all the legacy web servers with the new NSHTTP web servers. It is built with a self-developed parser for TCL, an embedded programming language, to read the legacy web servers, that helps migrate any legacy web servers while preserving its functional integrities and security strategies.

Shakthi Power Systems

Web design and Online Marketing (part-time)

Jan 2018 - Present

- Developed websites and implemented digital marketing strategies to attract potential clients for local businesses such as Shakthi Power systems and Shakthi RO. Developed a python tool that uses WhatsApp API to gain potential customers from a large contacts pool.

RESEARCH EXPERIENCE & INTERNSHIP:

HPE Research & Development

Intern in Mission Critical lab NonStop

Jan 2019 - June 2019

- Developed several automation projects for several middleware products in NonStop Systems. Automated and developed python plugins to create Ansible playbooks to interact with legacy subsystems responsible for delivering 100% fault tolerance in the NonStop systems.
- Automated the whole process single-handedly with python in which any non-native developer can easily deploy a web server and/or backend server in seconds without NSK programming.

PSGiTECH

Research Intern at Cloud Computing lab

Nov 2017 - Jan 2018

- Researched to build an enhanced Cloud infrastructure in a team of six using open-source Openstack to offer cloud services such as block storage, compute, and networking services to the startups based in Kerala.
- Optimized the data resilience across various storage devices, enhanced the Heuristic Approximation algorithm for Load Balancing, and developed a dedicated UI.
- Constructed a commercial private cloud infrastructure to effectively use the underutilized industrial-grade rack servers owned by the college, hosted projects from startups based in Kerala and PSG College of Technology which generated profits for the institution.

RELEVANT PROJECTS:

EDDIE - a Personalized voice assistant, PSGiTECH

Aug 2018 - Mar 19

- Developed a personalized intelligent voice assistant in a team of 4 as my final thesis project to emulate a human-like interaction and engage an autophobic audience with customizable voices to mitigate their loneliness.
- Equipped with several customizable sound profiles it also performs accessibility actions such as sending SMS/WhatsApp texts with audio typing, making/receiving calls and answering queries with intelligence.
- Technology: Java, Python, Lyrebird.ai, IBM Watson

KENNY - for stocks recommendations, PSGiTECH

2018

- Developed a stock market analysis system in a team of four to highlight better-performing stocks to the user based on a variable time set (customizable by the user).
- Technology: Python, Google Finance API, Machine Learning

INDEPENDENT PROJECTS:**CALIBRO - an automation project that notifies/cautions to calibrate medical equipment**

2018

- Automated the calibration management system i.e., calibrating Diagnostic Medical Imaging Equipment (MRI, CT, PET, and related devices) promptly to eliminate the increased risk of false diagnosis due to inaccurate results.
- Optimized a scheduling algorithm, 'Earliest Deadline First', a dynamic priority scheduling technique with progressive factors like online time, usage, and repetitions to create dynamic schedules, in real-time, for 600+ medical devices monitored by the PSG Institution of Medical Science and Research (PSG IMSR), across 60+ hospitals.
- Technology: Front-end (HTML, CSS, JS), Python, Django, MySQL, PDF tools

E-JANITOR – Filters out essential emails/SMS's from spams

2017

- A Naïve Bayes classifier project to filter out essential emails from a flood of spam emails by predicting human patterns. The Model is trained in the latest EURON CORP dataset.
- Technology: Python, Machine Learning

TECHNICAL CERTIFICATIONS & COURSES:

- Advance Python Programmer, HPE Research & Development 2020
- Problem Solving, Hackerrank 2020
- CCNA: CISCO Certified Network Associate in Module I, 2018 and Module II 2019

HONORS & AWARDS:

- Received the Star Point Recognition Award, NonStop, HPE Research & Development 2019 - 2020
- Received the Outstanding Contribution Award, Web Development, YUKTAHA 18 Mar 2019
- Received the Outstanding Contribution Award, EZHILI- Private Cloud infrastructure Mar 2019
- Joint Secretary, Computer Science and Engineering Association, PSG Group Mar 2018 - Apr 2019
- Lead Web Developer and Events Administrator, YUKTAHA18 - National Technical Symposium Mar 2018
- Secured 2nd place in TopCoder- coding event, KRIYA (state level), PSG College of Technology Feb 2018
- Ranked 1st in 'Do The Best'- a Real-world Problem-solving competition, ADVAYA17, PSGiTECH Sep 2017
- Vice-Captain, Ranked 3rd in district-level football zonal tournament, Anna University 2018
- Ed-Support Member and Teacher for orphaned kids in shelter homes, MAD - Make A Difference 2016 - 2017