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OBJECTIVE:

Aspiring to pursue a Masters in Computer Science specializing in General Computer Science to explore the domain, gain further technical knowledge, and research on cutting-edge technologies. Post this program, I want to start my career by working for a startup that broadens the scope of learning. I intend to practically apply the knowledge learned during the coursework in addressing evolving problems. In the long run, I want to set up a startup in my home country that engineers next-generation products and/or services to address problems faced by developing countries and support their economies.

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, Design & Analysis of Algorithm, Software Engineering, Compiler Design, Grid & Cloud computing.

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 highly reliable (99.99999% uptime), High-Performance Computing systems.
- 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 the migration tool to replace all the existing legacy web servers with new NSHTTP web servers with the newly developed built-in parser for the embedded TCL programming language to enable non-native developers to deploy any NSHTTP web server without NSK programming.

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- 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 **Research Intern in Mission Critical lab NonStop** Jan 2019 - June 2019

- Developed automation projects in the middleware layer of NonStop systems. Serverclasses, environments, TCP/IP providers, backlinks, ports need to be configured for each deployment, starting and stopping web servers which include expert Guardian/NSK programming and consume time.
- Whole processes are automated single-handedly with python as an interface in which any non-guardian developer/beginner can easily deploy/start/stop a web server and a backend server in seconds.

PSG Institute of Technology and Applied Research **Cloud Intern** Nov 2017 - Jan 2018

- Deployed Cloud project with **Professor(Senior Grade)** for research purposes, using open-source Openstack and offered block storage, compute, and networking services. (Conf. 2TB 32GB RAM + 1TB 16GB RAM x)
- Optimized the usage of idle resources of the Institution and increase data resilience by data replication across various storage devices, enhanced the Heuristic Approximation algorithm for Load Balancing, and developed dedicated UI.
- Ezhili, a private cloud infrastructure, built to effectively use the underutilized industrial-grade rack servers owned by the college also had a successful test run by startups based in Kerala and PSG College of Technology.

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 sound profiles to mitigate their loneliness.
- Equipped with 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 basic 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 in the medical field of 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 time-based dynamic priority scheduling 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 TopCode - 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
- Treasurer, English Literature Forum Aug 2015 - Apr 2016