

Chandhanu Mohan Kalamani

@ chandhanu.m.k@gmail.com  chandhanu  chandhanu-m-k  chandhanu.com

EDUCATION

RUTGERS UNIVERSITY

M.S. IN COMPUTER SCIENCE


 April 2024

 New Brunswick, NJ

Officer at DCS - Technical Assistant Office of Rutgers Recreation - Supervisor

PSGITECH

B.E. IN COMPUTER SCIENCE

 April 2019

 TN, India

Graduated with First Class 8.29/10

CERTIFICATIONS

Advanced Python Programming - HPE R&D, 2020

ProblemSolving - Hackerrank, 2019

CCNA: CISCO Certified Network Associate - CISCO, 2019

HONORS

STAR RECOGNITION AWARD

HPE R&D, 2020 AND 2022

For the contributions to the development of Next-gen WebServer and designing manageability frameworks.

OUTSTANDING CONTRIBUTION AWARD - CLOUD TECH

PSGiTECH, 2019

For Building a private cloud infra. and hosting startup projects.

OUTSTANDING CONTRIBUTION AWARD - LEAD WEB DEV

PSGiTECH, 2019

For Web designs and Automation projects for the College.

JOINT SECRETARY

PSGiTECH, 2017 - 2018

Administered two National Hackathons and led the website development team as the Joint Secretary of the Computer Science & Engineering Association.

VOLUNTEER

MAKE A DIFFERENCE, 2016 - 2018

Volunteered to support and teach under-privileged kids at PSG Homes.

SKILLS

PROGRAMMING

Python • Django • C/C++ • HTML/CSS • JavaScript • SQL • Shell • PHP

MISCELLANEOUS

Apache • Ansible • OpenStack • Git • Linux

EXPERIENCE

SYSTEM SOFTWARE ENGINEER

HPE RESEARCH & DEVELOPMENT, HPC LABS

 July 2019 - August 2022


 Bengaluru, India

- Collaborated and Developed the next-generation Web Server NonStopHTTP(NSHTTP) for NonStop systems, a 100% fault-tolerant system for mission-critical environments.
- Streamlined the entire design of the manageability framework through novel configuration techniques in NSHTTP on top of the unconventional SHARED-NOTHING architecture of NSK.
- Led the implementation of a cross-platform migration tool with a TCL(Embedded Language) parser to replace the NonStop system's legacy web servers with the new NSHTTP web servers.

SOFTWARE/WEB DEVELOPER

SHAKTHI POWER SYSTEMS & RO | SAI AQUA SOLAR CARE

 August 2020 - June 2022

 Coimbatore, India

- Implemented tailored billing and inventory management systems thereby reducing the manpower by 75%.

NONSTOP SYSTEMS INTERN

HPE RESEARCH & DEVELOPMENT, MISSION CRITICAL LABS

 January 2019 - June 2019

 Bengaluru, India

- Designed and revamped python plugins to create Ansible playbooks to interact with legacy subsystems capable of delivering 100% fault tolerance in the NonStop systems.
- Streamlined and constructed pipeline to safely deploy middleware application/web server and/or backend server safely without NSK programming.

CLOUD COMPUTING INTERN

PSG INSTITUTE OF TECHNOLOGY & APPLIED RESEARCH

 November 2017 - January 2018

 Coimbatore, India

- Constructed a Private Cloud infra. using Openstack with commercial cloud services and sold spaces to Host and monitor startup products

PROJECTS

AI - CIRCLEOFLIFE GHOSTINMAZE

RUTGERS UNIVERSITY - ARTIFICIAL INTELLIGENCE


 November, 2022


 NJ, USA

- Single-handedly developed prey-predator model AI traversal algorithm where the position of prey and predator is not known with 91% accuracy in a graph environment with random nodes and edges everytime, using Value-iteration Algorithm.
- **Technology:** Python, Value-iteration algorithm, NetworkX, Panda, Scikit, Matplot and Pytorch.

CALIBRATION MANAGEMENT SYSTEM EDDIE

PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH

 August 2018

 Coimbatore, India

- Automated the calibration management system, calibrating Diagnostic Medical Imaging Equipment promptly to eliminate medical error due to inaccurate results.
- Developed a personalized intelligent voice assistant in a team of 4 to emulate a human-like interaction and engage an autophobic audience with customizable voices to mitigate loneliness.
- **Technology:** Python, Django, JS, MySQL, PDF tools.