CHANDHANU MOHAN KALAMANI

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EXPERIENCE

TRADINGBLOCK   **Chicago, IL**
Full Stack & QA Intern   **07/2024-Present**
- Designed an automated File System monitoring tool that continuously monitors log files, reducing reaction time from 45 minutes to seconds by alerting traders to potential transaction failures immediately after market close.
- Executed an approved POC using i18n internationalization to enable multi-language support (Spanish, Mandarin).

HEWLETT PACKARD ENTERPRISE   **Bengaluru, INDIA**
System/Software Engineer   **07/2019-08/2022**
- Played a pivotal role in developing the Apache NonStopHTTP web server for the Tandem NonStop System (HPC), ensuring earlier launch, accounting for 20% of NonStop total revenue in 2022 Q2.
- Led the team in developing a cross-platform migration tool, offering enhanced customization, security features, and upgrade capabilities, resulting in an 80% increase in customer migration within four months of release.
- Streamlined manageability framework by designing a Jinja Templating engine with Ansible playbooks, unifying the structure of all NonStop middleware products into one, resulting in streamlined product deployments.
- Enhanced the extensibility of the NonStop Apache web server by integrating with the HPE GreenLake cloud platform, securing approval for a POC demonstrating compliance with containerization and SaaS deployment.

HEWLETT PACKARD ENTERPRISE   **Bengaluru, INDIA**
R&D Intern   **01/2019-06/2019**
- Architected an API-driven backend monitoring service utilizing WSGI, FastAPI, Cassandra and Python automation, resulting in a significant reduction of average load time from minutes to less than 1 second.
- Transitioned manageability scripts to Python, providing a flexible platform for future design plans, within a month.

SHAKTHI GROUP OF COMPANIES.   **Coimbatore, INDIA**
Web Developer   **01/2017-06/2018**
- Designed inventory management system using JS, Django, and MongoDB, increasing productivity by 75%.
- Revamped product portfolio websites to elevate the company products in Business Network International(BNI), resulting in a 20% increase in business connections and promoting collaborative opportunities nationwide.

EDUCATION

RUTGERS UNIVERSITY   **New Brunswick, NJ**
Master of Science in Computer Science   **08/2022-05/2024**
- Resolved over 120 software issues as the Technical Support Specialist, enhancing Digital Classroom Services.
- Officiated sports tournaments for Rutgers Recreation, ensuring fair play and promoting sportsmanship.

PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH   **Coimbatore, INDIA**
Bachelor of Engineering, Major in Computer Science with First class distinction   **08/2015 - 05/2019**
- Demonstrated leadership as the elected Joint Secretary of the Computer Science and Engineering Association.
- Completed coursework and projects in distributed systems, system development, and networking fundamentals.

PROJECTS

AI VERACITY MODEL: *AI Model with Reinforcement Learning, ChatGPT LLM, GCP, Google Docs, Django, Docker.*
- Devised an AI and reinforcement learning model to detect fabricated news, utilizing ChatGPT-4, Python, RESTful API, and Docker with up to 88% accuracy, using quantifying the narrative flow of the sentences.
- Seamlessly integrated with Google Docs (GCP) for automated input retrieval and processing with dynamic scoring.

PREY-PREDATOR CAPTURE MODEL: *Agent-based modeling, Neural Network, Horizon-based Value Iteration, MDP, DP*
- Developed an Agent-based Prey-Predator model in a graph environment using a Value iteration model with dynamic programming to compute optimal utility (U) and neural networks for utility prediction.
- Achieved a 97% success rate in prey capture with 16.78 average steps using value iteration to calculate optimal utilities for all states. Improved partial-information agent's success rate to 94% in 32 steps by training neural network models.

TECHNICAL SKILLS

- **Languages**: Python, C, C++, JavaScript, Shell Scripting, HTML/CSS, PostgreSQL, MySQL, NOSQL(MongoDB).
- **Frameworks**: ReactJs, NodeJs, ExpressJs, Jinja, Django, FastAPI, RESTful API framework design, Cassandra.
- **Dev Ops**: AWS, Git, Docker, Ansible, GitHub Actions, Vault. **Open Source**: Apache, OpenStack, Linux.
- **Certifications**: Advanced Python Programmer (HPE), CCNA(CISCO), CodePath, Fdn C# (Microsoft).