

Simon Shrestha

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EDUCATION

Bachelor of Science in Computer Science

May 2021

Truman State University – Kirksville, MO

Relevant Coursework: Systems Programming, Object Oriented Programming, Data Structures and Algorithms, Software Engineering, Database Systems, Computer Security Fundamentals, Computer Networks, Cyberethics, Programming Languages, Computing Structures, Bioinformatics, Computer Architecture and Organization

SKILLS

Programming Languages: C, C++, C#, Java, Javascript, Python, MIPS, Clojure

Web Technologies: HTML, CSS, React.js, Node.js (Express), MySQL, MongoDB, Postman

Networking Technologies: TCP/IP, OSI, nmap, Wireshark, Burp Suite, Metasploit, PfSense, VLAN, IDS/IPS

Other Tools: Git, Docker, VirtualBox, Proxmox, Linux, Windows, Office Suite, Unity3D

PROJECTS

Full stack web app | link: 99fud.com

Technologies: Node.js (Express), React.js, MongoDB Atlas, RESTful API, Docker, Caddy

- Developed a full stack web application to provide online food ordering service for local restaurant
- Designed and implemented frontend, backend and database of the system with client server architecture
- Containerized the app in Docker to host in a cloud service

High Availability Cluster Prototype (HAC) | link: github.com/Simant0/HACprototype

Technologies: Java

- Developed an application layer protocol over UDP to implement High Availability as a team with group for peer-to-peer and client-server network
- Detect failed nodes in a network through heart-beat protocol
- Provide high availability by replacing failed server with a new server automatically

Homelab | link: simant.xyz/static/media/Homelab.2e7ed5df.pdf

Technologies: PfSense, Proxmox, Linux, Windows

- Designed a home lab to set up a secure network and learn networking and penetration testing
- PfSense as router operating system providing internet access and firewall
- Ubuntu, Metasploitable and Windows as vulnerable machines and Kali as attacking machine

Phylogenetic tree generator | link: github.com/Simant0/NeighbourJoining

Technologies: Python

- Developed a program to generate phylogenetic tree with DNA sequences as input
- Implemented neighbour joining algorithm to find the phylogenetic tree
- Progressive pairwise dynamic programming to align sequence and find distance

WORK EXPERIENCE

Hall Desk Associate

May 2019 – December 2019

Truman State University – Kirksville, MO

- Assisted student residents with equipments rental, mails and packages
- Directed residents and guests to appropriate resources in the building
- Responded quickly to concerns regarding community from prospective and current residents

INVOLVEMENT

Activities Chair, Namaste Nepal

May 2018 – May 2019

Truman State University - Kirksville, MO

- Promoted Nepali culture by organizing Nepali sports, food and festive events in college
- Conducted events to ease the transition of new Nepali international freshmen at the university
- Served as the first point of contact during various sport and other events of the organization