

Sankalp Dwivedi

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dwivedisankalp97.github.io

Education

Master of Science (Computer Science) at Northwestern University, Evanston, Illinois Sept 2019 – Dec 2020

- Software Construction, Programming Languages, Compiler Construction **GPA: 3.77/4**

Bachelor of Technology (Computer Science) at VIT University, Chennai, India July 2015- April 2019

- OS, Software Engineering, Computer Networks **GPA: 8.49/10**

Experience

Blueprint Technologies, Bangalore: Data Visualization Intern May– June 2018

- Built reusable data visualization modules for SAP Lumira using d3.js in SAP Web IDE. Allows highly customizable data visualization according to the needs of the client.

Projects

NFC Attendance Android Application

- Scans RFID tags installed in student ID cards to store their credentials and use it to take attendance.
- <https://github.com/dwivedisankalp97/NFC-Attendance>.

Go Game

- Implemented a tournament of Go in python with support for AI players and online multiplayer.
- <https://github.com/dwivedisankalp97/Go-Game>.

Knowledge Visualization from News Articles Using Graph Database

- Extracts the relationships present between entities in news articles using machine learning and NLP. Feeds the data into a Neo4j database for fast and dependable data retrieval.
- <https://github.com/dwivedisankalp97/Knowledge-Visualization-Neo4j>.

Automated Inter-Service Access Control Policy Generation for Microservices

- Generated access control policies by performing static analysis on the source code of Microservices.
- Evaluated policy effectiveness using Istio, Kubernetes and Prometheus.

System Call Interface in Nautilus

- Implemented a Linux compatible system call interface in Nautilus OS using software interrupts and syscall instruction.
- <https://github.com/dwivedisankalp97/Nautilus-System-Calls>.

Skill Set

- C and C++
- JavaScript, HTML, XML
- MySQL, Neo4j
- PHP, Python
- Java and Android Programming
- Bash, Git, OpenMP, MPI
- Docker, Kubernetes

Extra-Curricular Activities

- Participated in VIT Inter-MUN (Model United Nations) 2015 as the delegate of Iran.
- Organized VIT Inter-MUN 2016 as part of Logistics department.
- Coordinated various events focusing on oratory skills of students.