SANKALP DWIVEDI

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SOFTWARE DEVELOPMENT PROFESSIONAL

Hardworking and passionate about computer science, I am aiming to pursue a career in Software Engineering. I believe I am capable, inquisitive and thorough in my processes. I work diligently to understand software requirements, build efficient solutions and deliver timely results.

EDUCATION

- **Master of Science (Computer Science) at Northwestern University, Evanston, Illinois** **Sept 2019 – Dec 2020**
Game Design and development, Machine Learning, AI programming, Compiler Construction GPA: 3.81/4
Programming Languages, Low-level Software Development

- **Bachelor of Technology (Computer Science) at VIT University, Chennai, India** **July 2015- April 2019**
Algorithms, Database systems, Mobile Programming, Software Engineering, Computer Network GPA: 8.49/10

EXPERIENCE

Software Engineer Intern: Blueprint Technologies **May 2018 - June 2018**

- Built reusable data visualization modules for SAP Lumira using d3.js in SAP Web IDE.
- Achieved highly customizable data visualization templates – these provided a clear insight into company's operational data and helped them categorize the information in a succinct way.

Software Engineer Volunteer: Code the Dream **Dec 2020 - Jan 2021**

- Mentor students and people from diverse backgrounds in software programming basics.
- Workshop and app development sessions to support low income communities in growing their technical skills.

Cross platform Online Gaming Lounge **Jul 2020 - Nov 2020**

- Create gaming teams and vote to select and prioritize the next game. Generates an in-app video call link to continue the session.
- Compatible with Android, iOS and web. Play with your friends at https://lounge-abdc4.firebaseapp.com/

ACADEMIC PROJECTS

- ✓ **NFC ATTENDANCE ANDROID APPLICATION**
- Scans RFID tags installed in student ID cards to store their credentials – this helps make the attendance process quick and reliable. Find more info here: **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 MICRO SERVICES**
- Generated access control policies by performing static analysis on the source code of Micro services.
- 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.

SKILLS

- C and C++, PHP, Python, JavaScript, Java and Android Programming, HTML, XML, Django, MySQL, Neo4j, Firebase.
- C#, Android Studio, React, Bash, Unity, Virtualization, Minikube, Apache, Git, OpenMP, MPI, Docker, Kubernetes.

EXTRA CURRICULAR ACTIVITIES

- Organized VIT Inter-MUN 2016 for Logistics department, inter department debate competitions and participated in VIT Inter-MUN (Model United Nations) 2015 as a delegate.
- Played college level table tennis and carrom enthusiast.