SAMAR KANSAL

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PROFILE SUMMARY:

Motivated computer science graduate with 3+ years of comprehensive full-time experience and internships. Seeking software engineering intern positions for Fall 2024. Open to full-time opportunities starting from December 2024.

EDUCATION:

Virginia Tech, Blacksburg, Jan 2023 - Dec 2024
 Master of Engineering in Computer Science GPA: 4/4

Birla Institute of Technology and Science, Pilani. Aug 2016 - July 2020
 B.E.(Hons.) Electronics and Communication GPA: 7.33/10

SKILLS & RELEVANT COURSEWORK

• **Programming Languages:** C/C++, Java, JavaScript, Kotlin, Python, SQL, PHP
• **Technologies & Frameworks:** React, Vue, Angular, Express, Node.js, MongoDB, Postgres, MySQL, Selenium, Autogen, FastApi, Streamlit, Kafka, Kubernetes
• **Coursework:** AI Tools in Software Development, Software Engineering, Web App Dev, Mobile Dev, Data Structures and Algorithms, Operating Systems, Database Management System, Object Oriented Programming, Network Programming, Social Media Analytics

Experience:

Division of IT, Virginia Tech. *Graduate Assistant (Software Developer)*   Jan 2023- Aug 2024
• Designed and developed a comprehensive loaning system for the entire institute using MySQL wrappers and JavaScript, significantly streamlining processes and enhancing user experience.
• Created an Angular UI for managing bulk requests, reducing clicks and administrative workload, and improving efficiency.
• Migrated institute-wide processes from Google Workspace to Microsoft Exchange, including creating an Azure app and leveraging shared calendar APIs to transition widgets from Google Calendar to Microsoft Calendar on the help portal.

ServiceNow. Hyderabad, India.

 Software Engineer-2   Feb 2022- Dec 2022
• **Service Operation Workspace:** Engineered a high-performance UI for an IT service management platform using JavaScript, React, GoJS, and GlideRecord for MySQL queries.
• **Site Reliability Operations Application:** Developed a full-stack app for SRE/DevOps, integrating ServiceNow scripting, a Seismic front-end, and GraphQL with MySQL for data management.

 Software Engineer-1   Aug 2020 - Feb 2022
• **Notify**: Developed a ServiceNow notification system using Java REST APIs for SMS/voice alerts, integrated with Zoom, Twilio, and Microsoft Teams, and utilized the Rhino JavaScript engine for server-side execution.
• **Problem Migration Utility**: Designed a JavaScript-powered application within ServiceNow to streamline upgrades to an enhanced Problem Management version for customers.

 Software Developer Intern   July 2019- Dec 2019
• **Incident Management:** Enhanced an ITSM app used by over 15,000 organizations. Executed feature development and contributed to app improvements.
• **Problem Management:** Designed and developed a workspace app to identify IT infrastructure errors and track bugs.
• **Automation and Unit Test:** Automated test cases for ITSM apps using Java Selenium to detect regressions.

 AlphaICs. Bangalore, India. *Software Developer Intern*   May 2019- June 2019
• Created custom operations (OPs) for TensorFlow with C++.
• Implemented parallel programming techniques for Molecular Dynamics using the OpenMP library.
• Simulated a camera module interface in C for efficient image collection from multiple cameras with reduced memory usage.

PROJECTS

• **Attendify (Meeting scheduler and QR-based attendance management system)** Recorded Demo Link
Description: Attendify is a web-based application that allow event organizers to schedule and manage meetings, while attendees use QR codes to check in and record their attendance. Deployed the application using Kubernetes for scalable and efficient management of containers.
Technology: HTML, CSS, JavaScript, MongoDB, Express, Vue, Node, Pinia, Kubernetes.

• **CarCool: Your Vibe, Your Ride (Carpool Matching App)**
Description: A carpooling platform that connects like-minded travellers. By integrating a unique 'Vibe Score' using ML models, the app assesses interests and preferences to match users for enjoyable long-distance journeys. Utilized Kafka for handling real-time notifications and ensuring efficient communication between services.
Technology: React, MongoDB Spatial DB for route matching, Kafka, FastAPI, Python for efficient backend operations, and dynamic vibe score calculations

• **Ducky (Coding Assistant)**
Description: Crafted an advanced AI-driven coding assistant leveraging fine-tuned large language models with the AutoGen framework to ensure the generation of optimal code solutions.
Technology: Open-source LLMs, Autogen, Python, Streamlit.

• **Video Streaming Application - MPTCP**
Description: Developed an MPTCP-based video streaming application capable of serving multiple clients simultaneously. Designed a custom scheduler to effectively manage congestion control.
Technology: Python, OpenCV, TCP/IP.