Sai Narasimha Vayilati

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SUMMARY

Master's student in computer engineering with two years of development experience with a demonstrated history in the Software Industry. My work involves proposing the best possible solutions for scalability problems and developing them.

EDUCATION

New York University　　　　　　　　　　　　　　　　　　　　　　　　　　　**Sep 2022 – May 2024**
Masters in Computer Engineering　　　　　　　　　　　　　　　　　　　　　　　　　　*Brooklyn, NY*
Courses: Principles of Database Systems, Machine Learning, Embedded Systems.

KL University - GPA: 3.8/4.0 (9.34/10.0)　　　　　　　　　　　　　　　　　**Aug 2016 – May 2020**
Bachelor of Technology in Electronics and Communication Engineering　　　　　　　　　　　　　*AP, India*
Courses: Artificial Neural Networks, Human-machine interaction, C programming, and Data structures, DBMS, Computer Architecture, Computer Networks, Object-oriented programming.

TECHNICAL SKILLS

Languages: Java, C, Python, HTML/CSS, JavaScript, SQL
Developer Tools: Kafka, Redis, Saas Cloud, PostgreSQL, Ant, Tomcat, Nginx
Technologies/Frameworks: Linux, .NET, GitHub, SpringBoot, Mickey FW

EXPERIENCE

Member Technical Staff - Zoho Corporation | *Chennai, India*　　　　　　　　　**Jul 2020 - Jun 2022**
- Software engineer in the back-end team builds features for Endpoint Central which is a cloud-based UEM solution for monitoring, managing, and remotely troubleshooting endpoints.
- Improved the scalability of Endpoint Central by introducing load balancer and rate limiters for TCP, IP flow in the network, and application flow.
- Specialized in Query optimization, Schema redesign, and database performance tuning.
- Developed and integrated performance analyzer to monitor SQL traffic.

Research Intern - Zoho Corporation | *Chennai, India*　　　　　　　　　　　　**Jan 2020 - Jun 2020**
- Worked as a java full stack developer and introduced features for Desktop Central which is unified endpoint management and security solution that helps in managing servers, laptops, desktops, and smartphones from a central location.
- Build, tested, deployed, and optimized SpringBoot REST APIs.

Software Developer Intern - CDK Global | *Hyd, India*　　　　　　　　　　　　**May 2019 - Dec 2019**
- Automated auditing process for computerized vehicle registrations where workload reduces from an eight steps manual process to three steps automated process using .NET Framework and MSSQL.
- Developed Restful APIs to perform CRUD Operations on MSSQL database using spring-boot.

Intern at Signal and Telecommunication Department - BSNL | *Vij, India*　　　**May 2018 - Jun 2018**
- Acquired hands-on experience in mobile communication and understand the flow from request for originating call to termination.
- Developed GSM based digital weather system. Tracking temperature, light and humidity using three sensors and shared with the user using GSM modem.

PROJECTS

Array Antenna Side-lobe level reduction | *Java, MSSQL, Matlab*　　　　　　　　　　　**Feb 2020**
- Formulated a cost function to solve the beam pattern synthesis problem in Linear Array Antenna.
- A 16 element LAAs are conducted to verify the optimization performances of the SLL reductions and results were projected in an interactive dashboard. The fill rate was improved by 78.53%.

Learning Management System | *Java, Angular, Node JS*　　　　　　　　　　　　　　　**Mar 2019**
- Developed a learning management system in which designed the front-end single-page application using the Angular framework.
- Used NodeJs to build REST API for managing the queries and handling the data requests.

Baseless mouse using IOT | *Python, Iot, Arduino*　　　　　　　　　　　　　　　　　**Oct 2018**
- Pitch and roll axis sensed by the accelerometer is analyzed by NODE MCU (esp 8266) IoT device.
- Sensed parameters were transmitted to the computer to make a response in mouse cursor by python programming.

Web-based Game design | *Java, Servlets, LabView, Tomcat*　　　　　　　　　　　　　**Apr 2018**
- Created a web-based game using Java and LabView. Also implemented interactive leaderboard to display highscores.
- Used abstracted methods to implement default functionality such as error and state logging and stored control states in configuration files.

HONORS AND AWARDS

- Resource person in the national wide webinar on "Advanced Open-Source Database-PostgreSQL".
- Final Round Winner of Data Structure workshop cum Championship organized by IIT Roorkee.
- Asia Finalists (Top 5) in the CDK Global Modern Apps Hackathon (Oct 2019)
- Public relations lead for National level techno-management fest Samyak.