ANURAG KACHAM Rochester, NY
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Dynamic Software Engineering Intern skilled in AWS, React JS, Node JS, and full-stack development. Led high-precision in-play detection with AWS Rekognition, **driving a 15% pipeline performance boost**. Transformed sports match dashboard via React.js and real-time metrics, **achieving a 20% user engagement uplift** through UI enhancements and features. Proficient in **secure API integration and serverless deployment (AWS S3, Lambda, SNS, SES). Eager to bring technical acumen, creativity, and a strong problem-solving drive to an innovative software development team.**

SKILLS

Languages: Java, C, Python, Haskell, SQL, JavaScript, HTML, CSS, PHP, XML
Tools: Eclipse, VS Code, Jupyter Notebook, Wireshark, IntelliJ IDE, Google Colab, Android Studio, Git, Media Live, Rekognition
Libraries: Pandas, NumPy, Matplotlib
Operating Systems: Windows, macOS, Unix, Linux, Ubuntu
Technologies: AWS, RDBMS, MongoDB, ASP.NEXT (MVC), Node JS, Bootstrap, React JS

WORK EXPERIENCE

BIZCLOUD EXPERTS [JavaScript, AWS, ReactJS, NodeJS, Python] Dallas, TX
Software Developer Intern June 2023 – Current

- Developed AWS-based solutions for cricket analysis, including an accurate in-play detection method with AWS Rekognition, a livestream replay component with Node.js, AWS S3, and AWS Media Live, and a sports match dashboard with real-time metrics using React.js and AWS CloudWatch.
- Increased user engagement and platform optimization by 20% through UI improvements and new features, automated functions using API Gateway and AWS S3 triggers and optimized the cricket analysis pipeline by 15% by efficiently managing AWS Rekognition resources.
- Implemented database integration and infrastructure, including API data retrieval and storage in MySQL RDS using Node.js and AWS RDS, secure operations through Bastion Host in a VPC, and serverless solutions with AWS SNS, AWS SES, AWS Lambda, and CloudWatch Triggers.

KESHAV MEMORIAL INSTITUTE OF TECHNOLOGY [Wireshark, Python, Linux] Hyderabad, India
Project Intern: Unauthorized Access Point Detection May 2021 – Aug 2021

- Coached and led a team of 4 to capture packets using Packet Sniffer on LINUX system and analyze logs using Wireshark and Python.
- Detection of unauthorized Access Points (AP) was carried out utilizing 3 base RF conditions and achieved an accuracy of 97%.

PROJECTS

LANGUAGE CLASSIFIER [Python, AdaBoost] Sep 2022 - Oct 2022

- Investigated decision tree usage and boosted decision stumps for categorization of text as one of two languages using 10 different criteria.
- Achieved 99% accuracy with the help of more than 100 decision trees for a 10-line text file.

OPTIMAL PATH FOR ORIENTEERING [Python, OpenCV] Jul 2021 - Aug 2022

- Determined the best path between two points involving different kinds of terrains within 3 seconds.
- Implemented A* algorithm and worked on heuristics and achieved the recommendations required with an efficiency of more than 90%.

LUNAR ROVER SIMULATION [Java, Docker, Socket Programming, TCP/IP, Multi-threading] Jan 2022 - Mar 2022

- Developed a distance-vector routing protocol like RIPv2, but with 8 specifications like configuring a master rover.
- Created selective use of firewall blocking as well, for maintaining and managing rovers.

IMAGE DOWNLOADER GAME [Java, TCP/IP, Socket Programming] Oct 2021 - Nov 2021

- Designed an image game over a network for 2 players, supporting both Datagram sockets and TCP/IP.

PLATFORM FOR FUNDING AND START-UPS [Java, HTML, CSS, SQL, JSP] Nov 2020 - Dec 2020

- Optimized UI/UX by incorporating authentication and verification protocols for 3 different roles, namely admin, start-up members, and investors, for a better user experience.
- Devised and introduced an automated system featuring a quick search that displays a list of start-ups based on requirements, eliminating the need for manual searching and resulted in a 3 hours/week time saving.

EDUCATION

Masters in Computer science, Rochester Institute Of Technology, Rochester, NY Aug 2021 - Dec 2023
Bachelors in Computer science & Engineering, Jawaharlal Nehru Technological University, Hyderabad, India Jul 2017 – Aug 2021