Ajith Chowdary Nuthalapati

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EXPERIENCE

Software Engineer - Glenysys Technologies Inc.
Aug. 2023 – Jan. 2024
Chicago, IL

- Developed user-friendly hybrid applications using **Spring Boot and React** for optimal UX, while also completing maintenance tasks like ticket resolving and bug-fixing.
- Leveraged AWS services (**EC2, DynamoDB, VPC, CloudWatch, IAM, Lambda, Redshift, S3, RDS)** for building serverless applications, monitoring, security, storage, and database management.
- Gained proficiency in **Docker** container management and image manipulation.
- Automated job scheduling (Cron, SQL Server Agent) and utilized **Jira** for team collaboration.

Graduate Assistant - Iowa State University
Jul. 2022 – Dec. 2022
Ames, Iowa

- As a **Teaching Assistant**, I have assisted Dr. MD Maruf Ahmed in coursework delivery and **mentored 20+** students, contributing to programming assignments, exams, and recitations.
- As a **Research Assistant**, I have contributed to developing and maintaining the Student Dashboard using **R and SQL**. Optimized performance and enhanced UI/UX through rigorous testing and debugging, ensuring a **3-second decrease** in loading time.

Software Engineer - Snagger India Pvt. Ltd.
Aug. 2019 – Feb. 2021
India

- Led project development of Snagger app (UX/UI focus) with a 5-person team, securing **90+** partner stores in **2 weeks**, driving a **5,000+** user base growth in **1 month**.
- Enhanced web app performance and security by refactoring and testing, resulting in reduced loading time by **20%**.
- Collaborated on optimizing processes to cut project delivery times by **20%**, resulting in enhanced user satisfaction.
- Shared knowledge of AR/VR applications by leading seminars for aspiring software engineers.

Software Intern - Code Beat Pvt. Ltd.
May. 2018 – Aug. 2018
Hyderabad, India

- Developed an IoT remote-controlled car with **Arduino** integration.
- Built and programmed sensor-driven projects, including hand-gesture-controlled and smart lighting.
- Gained proficieny in TCP/IP, Networking Technologies (LAN, WLAN, WAN), and SSL Certificate.
- Expertise in network configuration, OSI troubleshooting, and IPv4 addressing schemes.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, JavaScript, HTML, CSS, SQL, R, Linux Shell Scripting.
Frameworks/Libraries: Spring Boot, Gradle, Maven, Numpy, Unity, React, TensorFlow, MATLAB, Service Now.
Tools/Technologies: Git, Docker, Kubernetes, AWS (DynamoDB, S3, IAM, Lambda, CloudWatch, RDS, EC2, VPC, SNS, SQS), Cppcheck, SonarQube, GitHub, TCP /IP, Wireshark, Jira, Trello.
Cloud/Databases: AWS, DynamoDB, CloudWatch, Snowflake, MongoDB, GCP, SQL, NoSQL.
OS: Kali Linux, Ubuntu, Windows OS, MacOS, Arch, Red Hat.

EDUCATION

Iowa State University
Ames, Iowa
Master's in Cyber Security and Computer Engineering, 3.49/4.0
Aug. 2021 – May 2023

SRM University
Chennai, India
Bachelor's in Computer Science and Engineering, 3.0/4.0
Aug. 2016 – Aug. 2020

PROJECTS

Advanced Analysis of Null Pointer Dereference in Linux
Fall, 2022

- Investigated and resolved a null pointer dereference in Linux by analyzing and comparing static analysis tools (**Cppcheck, Codechecker, Facebook Infer, SonarQube**) against the Juliet Test Suite for security enhancement. This process sharpened my expertise in static analysis and problem-solving skills in cybersecurity.

Driver Drowsiness Detection
Fall, 2018

- Developed a vehicle safety system to prevent driver accidents using real-time facial and eye movement analysis.
- Implemented **Sobel Edge Detection, Viola-Jones Algorithm** for facial recognition, and **K-Means Clustering** to assess driver alertness based on eye and mouth status.