

Ajith Chowdary Nuthalapati

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EDUCATION

Iowa State University

Master's in Cyber Security and Computer Engineering, 3.49

Ames, Iowa

Aug. 2021 – May 2023

SRM University

Bachelor's in Computer Science and Engineering, 3.0

Chennai, India

Aug. 2016 – Aug. 2020

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, Git, Jira, Trello, TensorFlow, MATLAB, Service Now.

Tools/Technologies: Git, Docker, AWS (DynamoDB, S3, IAM, Cloudwatch, RDS, EC2, VPC, SNS, SQS, Lambda), Snowflake, Cppcheck, Codechecker, GCP, GitHub, MongoDB, TCP /IP, Wireshark.

EXPERIENCE

Software Developer Engineer I

Glensys Technologies Inc.

Aug. 2023 – Jan. 2024

Remote, US

- Leveraged AWS services (**EC2, VPC, CloudWatch, IAM, S3, RDS**) for scalable infrastructure, monitoring, security, storage, and database management.
- Skilled in Docker container management and image manipulation, streamlining development and deployment with Spring Boot.
- Configured asynchronous messaging (**Tomcat, WebLogic**) for enhanced app communication and performance.
- Automated job scheduling (Cron, SQL Server Agent) and implemented agile project management (**Jira, Trello**) for improved system reliability and team collaboration.
- Developed user-facing applications (Java, C#, JavaScript) using **Spring Boot and React** for optimal UX.
- Optimized project workflows with **Maven and Jenkins**. Deployed scalable applications on AWS and Snowflake.

Graduate Teaching Assistant

Iowa State University

Aug. 2022 – Dec. 2022

Ames, Iowa

- Assisted Dr. MD Maruf Ahmed in coursework delivery.
- Mentored **20+** students, contributed to programming assignments, exams, and recitations.

Graduate Research Assistant

Iowa State University

Jul. 2022 – Dec. 2022

Ames, Iowa

- 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 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 using pen-testing (**Wireshark, Aircrack-ng, John the Ripper**).
- Collaborated on database design (**MongoDB, Firebase**) for optimal data management.
- Reduced app loading time by **28%**, scaled capacity, and improved efficiency through debugging.
- Optimized processes to cut project delivery times by **20%**, enhancing user satisfaction.
- Shared knowledge of AR/VR applications by leading seminars for aspiring software engineers.

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 cybersecurity 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.