

AJITH CHOWDARY NUTHALAPATI

+15154602747 | ajithchowdarynuthalapati@gmail.com | linkedin.com/in/ajithchowdary149/ | ajithn.com/

PROFESSIONAL SUMMARY

Highly motivated and results-oriented computer engineer with a Master's degree in Computer Engineering. Possesses strong full-stack development expertise with experience in designing, developing, and deploying scalable web applications. Proven ability to leverage cloud platforms (AWS, GCP) to build efficient and secure software solutions. Skilled in a variety of technologies, including Java, Spring Boot, React, and Agile methodologies. An enthusiastic team player with a passion for innovation and problem-solving.

PROFESSIONAL EXPERIENCE

Glenysys Technologies Inc

Software Engineer

Remote

August 2023 - January 2024

- Developed and maintained user-friendly, scalable web and hybrid applications using React, Spring Boot, JavaScript, Docker, and AWS (EC2, S3, RDS, Lambda, DynamoDB).
- Optimized development and deployment workflows using Maven and Jenkins, achieving 15% faster deployments and 25% fewer errors (AWS, Snowflake).
- Implemented agile project management practices using Jira, Trello, Cron, and SQL Server Agent for improved collaboration, system reliability, and defect resolution.
- Experienced in containerization (Docker) and automation tools (Maven, Jenkins) for efficient development, deployment, and maintenance.
- Developed and maintained hybrid applications using ASP.Net, Web logic, web forms, MVC, and PowerApps, enhancing user experience and operational efficiency.

Iowa State University

Graduate Teaching Assistant

Ames, IA, USA

August 2022 - December 2022

- Guided 20+ undergraduate students as Teaching Assistant, improving proficiency in C programming
- Streamlined student abilities in writing, designing, and debugging computer programs, leading to a higher success rate in resolving complex software engineering challenges.

Iowa State University

Graduate Research Assistant

Ames, IA, USA

July 2022 - December 2022

- Led the implementation and upkeep of the Student Dashboard utilizing R, RStudio, SQL, and MySQL.
- Optimized the dashboard with routine updates via the university's Linux server, resulting in an 8-second decrease in loading time.
- Enhanced the overall UI/UX by rigorously testing and debugging to ensure optimal user experience.
- Utilized SQL and R for data manipulation and analysis.

Snagger India Pvt. Ltd.

Software Engineer

Vijayawada, Andhra Pradesh, India

August 2019 - July 2021

- Led a high-growth mobile app project (Snagger), securing 90+ partners and driving 5000+ user growth in 1 month.
- Delivered scalable, high-performance web and mobile applications (React, Spring, JavaScript, PHP) using cloud platforms (AWS, MongoDB) and automation tools (Git, Ansible, Jenkins).
- Utilized secure software development practices (code reviews, security testing tools) for a 20% security improvement.
- Optimizations boosted project efficiency by 20%, leading to enhanced UX and improved customer satisfaction.
- Developed high-performance web applications (PHP, JavaScript, React), reducing access time by 50%.
- Designed and implemented API endpoints for partner integration.
- Built and managed scalable cloud-based systems using Java, Spring Boot, React, AWS, SQL, and
- MongoDB, optimizing infrastructure and ensuring seamless data synchronization through external API.

Code Beat Pvt. Ltd.

Software Intern

Hyderabad, Telangana, India

May 2018 - July 2018

- Engineered an IoT-enabled remote car using Arduino, implementing gesture recognition for navigation.
- Built and programmed sensor-driven projects, including hand-gesture-controlled and smart lighting.
- Gained proficiency in TCP/IP, Networking Technologies (LAN, WLAN, WAN), and SSL Certificate.
- Acquired expertise in network configuration, OSI troubleshooting, and IPv4 addressing schemes

EDUCATION

Iowa State University

Master's, Computer Engineering

August 2021 - August 2023

GPA: 3.49

- Graduated with a dual major in Computer Engineering and Cyber Security.

Other

Bachelor's, Computer Science

July 2016 - May 2020

GPA: 3

- Graduated with a major in Computer Science and Engineering

PROJECTS & OUTSIDE EXPERIENCE

Vehicle Safety System through Drowsiness Detection

Chennai, Tamil Nadu, India

Student

2018 - 2018

- During our second year of bachelor's, we developed a vehicle safety system focusing on driver drowsiness detection
- Using real-time facial and eye movement analysis, our system calculates a drowsiness index to preempt accidents, implemented in Matlab
- It integrates Sobel Edge Detection for edge delineation, the Viola-Jones Algorithm for facial recognition, and K-Means Clustering to assess the driver's alertness by analyzing eye and mouth status
- This project highlights the role of image processing algorithms in improving vehicle safety and preventing accidents due to drowsiness.

Snagger App

Vijayawada, Andhra Pradesh, India

Software Developer

August 2019 - February 2021

- A mobile application that presents a distinctive hybrid model, adeptly merging online and offline components
- Subscribers are afforded the opportunity to avail themselves of exclusive discounts at our esteemed retail partners
- A key differentiator of our business model is the unrestricted usage during the subscription tenure, offering exceptional value to our clientele
- This avant-garde strategy positions us uniquely in the marketplace, providing a thorough and gratifying consumer experience.
- [Link to project](#)

Advanced Analysis of Null Pointer Dereferences in Java

Ames, IA, USA

Student

August 2022 - December 2022

- Investigated the causes and potential solutions for null pointer dereferences, a common Java vulnerability.
- Empirically evaluated the effectiveness of static analysis tools (Cppcheck, Codechecker, Infer, SonarQube, and SpotBugs) in detecting null pointer exceptions using the Juliet Test Suite.
- Analyzed the precision and false-positive rates of these tools, gaining critical insights into their capabilities.
- Enhanced understanding of software vulnerabilities in Java and the importance of accurate vulnerability detection for cybersecurity.

Snagger AR App

Hyderabad, TG, India

Software Engineer

May 2019 - January 2021

- Create an AR application where our clients (from the construction, manufacturing, and designing industries) showcase their projects to attract more customers and increase their sales
- Build using Unity 3D, MAXST, C#, Java SDK and Andriod SDK.

SKILLS

Skills: Android Development, Atlassian, AWS, Computer Networking, C#, Data Structures & Algorithms, Docker, Flutter, Google Cloud Platform, Heroku, JavaScript, JIRA, Jupyter, Git, HTML/CSS, Java, PowerShell, Linux/Unix, C/C++, Market Research, MongoDB, MySQL, NumPy, Pandas, PHP, Objective-C, Postman, Pytorch, SQL, Python, UI/UX Design, Unity, Web Development, NoSQL, Firebase, TCP/IP, MATLAB, Maven, Snowflake, Spring, Spring Boot, Gradle, Cppcheck, Codechecker, SonarQube, S3, RDS, Redshift, SNS, SQS, Adobe After Effects, EC2, VPC, IAM, DynamoDB, Lambda, CloudWatch, Snowflake, NoSQL, SQL, Wireshark, Apache Maven, Asana, Blender, Canva, JUnit, Postgres, RDBMS, R, React Native, ServiceNow, Software Testing, Tensorflow, Tomcat, Unreal Engine, WebLogic, Wordpress, Agile, SCRUM, KANBAN, Unix Shell Scripting, Bash, MySql, SSMS, Unity 3D

Languages: Hindi, Finnish, Telugu, German

Interests: Swimming, Music, Gym, Bloudering, and Hiking