

**Inturi Akhil**

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**PROFESSIONAL SUMMARY:**

Motivated and detail-oriented computer science graduate with expertise in various programming languages, algorithms, and software development methodologies. Throughout my academic career, I have gained hands-on experience in various domains, including software engineering, machine learning, and database systems. Additionally, I have gained experience working with both individual and team projects, further developing my critical thinking, problem-solving, and collaboration skills.

I am eager to bring my academic and technical expertise to a challenging position where I can continue to grow my skills and contribute to the development of innovative technology solutions.

**EDUCATION:**

- Master's in Computer Science from University of North Texas,Denton, TX
- Bachelor's In Computer Science and Engineering from VIT University, Vellore, India.

**CERTIFICATIONS:**

- AWS Associate Solutions Architect (Validation Number XC1JKJDKDN1E1EC4)

**TECHNICAL SKILLS**

- **Operating Systems** : Linux (Ubuntu), Windows Variants
- **Version Control** : GIT
- **Database Management** :MySql, Oracle, Microsoft Sql Server
- **Scripting** : HTML, JAVA Script, and Python
- **Programming** : C, C++, JAVA, C#.Net, VB.Net.
- **IDE Tools** : ECLIPSE IDE, VISUAL STUDIO

**EXPERIENCE:**

**APTEAN TECHNOLOGIES**

**JAN 2022 - JUN2022**

**Role: Software Development Intern**

**Responsibilities:**

- Develop and maintain Cypress-based automation frameworks and test scripts to ensure the quality of the software under test.

- Collaborate with developers and product owners to identify and prioritize test cases, requirements, and acceptance criteria.
- Execute automated and manual test cases and analyze results to detect software defects, bugs, and other issues.
- Report and track defects in issue tracking systems and follow up with the development team to ensure timely resolution.
- Participate in design and code reviews to ensure adherence to best practices, quality standards, and testability.
- Continuously improve the test automation framework, testing methodologies, and test coverage to optimize the testing process and increase the effectiveness and efficiency of the testing effort.
- Participate in agile ceremonies, such as sprint planning, stand-ups, retrospectives, and demos, to provide feedback and insights into the testing process and contribute to the overall product development cycle.

**HUMACi IT SERVICES**  
**MAR2021**

**JAN 2021 -**

**Role: Software Development Intern**

**Roles and Responsibilities:**

- Understanding the requirements of the chatbot and defining the conversation flow and intents in Dialogflow CX.
- Developing custom fulfillment code in Node.js to integrate external systems and services with the chatbot, such as databases, APIs, and webhooks.
- Creating and managing the required Google Cloud resources, such as Dialogflow CX agents, Cloud Functions, and Cloud Storage buckets.
- Implementing and testing the chatbot's natural language processing (NLP) capabilities, such as entity recognition, intent detection, and sentiment analysis.
- Designing and developing the chatbot's user interface, such as the chat window, buttons, and menus, using web technologies like HTML, CSS, and JavaScript.
- Ensuring the chatbot is optimized for performance, scalability, and security, and follows best practices for coding, testing, and deployment.

**ACADEMIC PROJECTS AND PAPERS**

**Density Based Traffic Light Controller Using Arduino**

- The key goal of this project is to show that if there is no traffic on the other light, one need not wait for it. The signal will be skipped by the device, which will then pass on to the next.

- The Arduino will be used to read from the ultrasonic sensor HC-SR04 and measure the distance in this project. This distance will show whether a car is approaching the signal, and traffic signals will be controlled accordingly.

### **Survey on parts of Cache Optimization Technique(PAPER)**

- Conducted in-depth research on cache optimization techniques and their impact on CPU and main memory performance.
- Explored the organization of cache memories and their role in improving overall computer performance.
- Investigated energy-efficient cache structures and their influence on system power consumption.
- Explored a new cache replacement algorithm based on the Least Recently Used (LRU) policy.
- Developed skills in summarizing complex research papers and extracting key insights.

### **Employee Payroll Management Portal(UI/UX and Database Administration)**

- Design and create the database schema to store payroll-related data.
- Optimize database performance and ensure data integrity.
- Implement appropriate security measures to protect sensitive data.
- Plan and implement data backup and recovery strategies.
- Translate UI/UX designs into interactive web interfaces using HTML, CSS, and JavaScript.
- Define the interactions and user flows within the payroll portal.