Azharuddin Malik

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Education

Chandigarh University **Aug. 2025 – Present**
Bachelor of Engineering in Computer Science - 7.37 CGPA Present *Mohali, Punjab*

Andhra Education Society High School & Jr College **April 2019 – March 2021**
Higher Secondary Certificate – 77.8% percentage *Mumbai, Maharashtra*

Andhra Education Society High School & Jr College **April 2017 – March 2019**
Secondary School Certificate – 61.6% percentage *Mumbai, Maharashtra*

Relevant Coursework

- Java Programming
- Data Structures
- Algorithms Analysis
- Database Management
- Operating Systems
- Computer Networking
- OOPs

Technical Skills

- ***Languages:*** *C, C++, Java, Python, HTML, CSS, JavaScript, SQL*
- ***Frameworks/Libraries:*** *Bootstrap, Spring Boot, Angular, Hibernate, JUnit*
- ***Developer Tools:*** *Android Studio, Git, GitHub, Google Cloud Platform, IntelliJ*
- ***Databases:*** *MySQL, JSON*

Certifications

IBM Full Stack Software Developer Specialization

Coursera

- Web Development, Git, Github, Python, Django, React.js, Node.js, Express.js, SQL, NoSQL, MongoDB, Microservices

Angular Developer Program

Infosys-springboard

- Angular Framework, TypeScript, HTTP Communication, UI Components.

Deep Learning and Reinforcement Learning

IBM (via Coursera)

- Python, TensorFlow, Neural Networks, CNN, RNN, LSTM, Q-Learning, Policy Gradient, Deep Q-Networks (DQN), PyTorch.

Projects

URL Shortening System (XURL) | *Java, Hash Map, SpringBoot, REST API* **June 2024**

- Created a URL shortening system using a bidirectional hash map for fast lookups and ensuring each long URL has a unique short URL.
- Added analytics and flexible URL registration, supporting both random and custom short URL generation.
- Implemented robust error handling, custom exceptions, and synchronized mappings for data integrity.

Urban Insight: Satellite Image Segmentation | *Python, Flask, TensorFlow, U-Net Architecture, OpenCV* **January 2025**

- Developed an AI-powered web platform for urban planning that performs semantic segmentation on aerial imagery, identifying buildings, roads, vegetation, and water bodies with 92% accuracy.
- Built a responsive Flask web interface with image comparison tools, confidence mapping, and statistical analysis to help urban planners visualize land use patterns.
- Designed a gallery system showcasing different urban environments (downtown, suburban, waterfront) with interactive filtering and detailed segmentation metrics.

WeatherSnap | *Python, Django, HTML, CSS, JavaScript* **May 2023**

- Developed a Weather Monitoring App with search autocomplete functionality
- Integrated weather APIs for efficient and accurate result delivery
- Designed and implemented a user-friendly interface with history tracking capabilities operations.

Achievements

- *Topper in consecutive NPTEL exams: Internet of Things (IoT), Introduction to Programming Through C++, and Discrete Mathematics*
- *Received an award in 2018 from the High School Association of the Andhra Education Society for being a Blue Flag Leader of the Scout*
- *2nd Rank Holder at Science Exhibition in 2018, Don Bosco High School*