# Nithin Naidu

**Full Stack Developer**

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## Professional Summary

Results-oriented software engineer experienced in designing and developing state-of-the-art, advanced software solutions in the domain of autonomous systems, including UAVs and wider autonomous vehicle control. Hands-on experience with REST APIs, frontend technologies of React and Redux, backend technologies, and SQL in the design and development of scalable and efficient systems.

## Technical Skills

**Programming Languages:** JavaScript, HTML/CSS, Java, SQL, Python, Shell

**Technologies/Frameworks:** React, Redux, Angular, Node.js, Three.js, jQuery

**Database Technologies:** MySQL, PostgreSQL, MongoDB, NoSQL

**DevOps/Tools:** Git, AWS, Figma, Postman, Jira, Trello

**Platforms:** QTCreator, Unity

## Education

**Northeastern University** **Expected May 2026**
*Master of Science in Software Engineering Systems* *Boston, MA*

**Visvesvaraya Technological University** **Aug 2016 – Aug 2020**
*Bachelor of Engineering in Computer Science and Engineering* *Bangalore, India*

## Experience

**Newspace Research and Technologies** **Apr 2021 – Jul 2024**
*Design Engineer I, Human Machine Interface Team, Autonomy Innovation and Research* *Bangalore, India*

- Designed and implemented **Ground Control Station Software** for UAV swarms, improving mission control efficiency by **40%** and increasing operational accuracy by **25%**
- Led the development of **advanced mission planning features** (routine creation, parameter validation), reducing mission preparation time by **30%** and improving drone task allocation by **20%**
- Enhanced front-end performance and UI by improving **REST API design** using JavaScript, React, and Redux, cutting system latency by **50%** and improving user interaction speed by **25%**
- Integrated **GIS frameworks** (Leaflet, Mapbox, ESRI ArcGIS), improving real-time situational awareness by **35%** and increasing mission success by **20%**
- Implemented **mission planning improvements** for swarm drones, reducing manual drone assignment time by **40%** and enabling faster deployments
- Developed and integrated **video feed systems** for Artillery Correction Software, increasing pipeline capacity by **350%** and reducing data processing time by **50%** in critical operations
- Trained **50+ defense officials** on the new system and managed a fleet of **70+ drones**, ensuring successful deployment in high-stakes environments with **zero operational failures**

## Academic Projects

**Comprehensive Employee Leave and Rollover Management System** **Aug 2024 – Dec 2024**
*Northeastern University* *Boston, MA*

- Developed a role-based system for managing employee leave, improving policy compliance and system efficiency by **25%**
- Implemented **advanced reporting and analytics** for tracking leave trends and workforce needs, leading to a **30% improvement** in resource allocation
- Integrated **payroll systems** with leave management, streamlining deductions and reducing errors by **15%**
- Designed a **mobile-friendly self-service portal**, increasing employee engagement by **20%** and improving leave tracking and submission efficiency