

# Sesha Saichand Avula

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## Professional Summary

Computer Science Engineering undergraduate with expertise in full-stack development and backend automation. Skilled in building and deploying enterprise-level applications with JWT authentication, dynamic role-based access control (RBAC), automated workflows, and real-time messaging systems. Proficient in JavaScript/Node.js, PHP, React, MongoDB, MySQL, and system design principles.

## Professional Experience

### Full-Stack Developer Intern, CloudWorks (Remote)

*January 2025 – Present*

#### *SCN Corp Platform Development*

- Engineered automated timesheet reminder and submission system using PHP and Workday API, reducing manual administrative effort by 40%.
- Designed comprehensive database schema, handling edge cases including custom week start dates, null value management, and mixed date format parsing.
- Implemented secure password reset functionality and file upload capabilities, deploying production system on GoDaddy hosting (scn-corp.com).

#### *COM360 Multi-Organization HR & Operations Suite*

- Architected dynamic menu and permission engine with JWT-based authentication for organization-level data isolation.
- Developed HR management system supporting subscription management, job posting workflows, payroll processing, leave management, interview scheduling, and role-driven dashboards.
- Led development of authentication system, RBAC implementation, and core platform workflows in collaboration with development team.

## Key Projects

### ElectroLand – Enterprise Retail Management System

*Technologies: Node.js, Express, MongoDB, EJS, Socket.IO, JWT*

*Repository: [github.com/vsn20/ELECTROLAND](https://github.com/vsn20/ELECTROLAND)*

- Developed retail management platform with five user roles (Admin, Company, Sales Manager, Salesman, Customer) and JWT-based authorization.
- Implemented real-time messaging system using Socket.IO for seamless stakeholder communication.
- Built secure authentication flow with email-based OTP password reset functionality.
- Created admin analytics dashboard with business intelligence features.

- Designed customer review and rating system with moderation capabilities.
- Contributed to inventory management, order processing, commission and salary calculations, trending products algorithm, and responsive UI.

## Technical Skills

- **Programming Languages:** JavaScript, PHP, Python, Java, C
- **Frontend Technologies:** React.js, Next.js, HTML5, CSS3, EJS
- **Backend Technologies:** Node.js, Express.js, PHP
- **Database Systems:** MongoDB, MySQL
- **Cloud & DevOps:** AWS EC2, GoDaddy Hosting, Git
- **APIs & Integration:** Workday API, REST API Development
- **Core Concepts:** JWT Authentication, Role-Based Access Control, Modular Architecture, Real-Time Systems
- **Academic Coursework:** Data Structures & Algorithms, Operating Systems, Database Management Systems, Web Development

## Education

### Indian Institute of Information Technology (IIIT), Sri City

*Bachelor of Technology in Computer Science & Engineering*  
Current CGPA: 8.61/10.0

### Sri Chaitanya Junior College, vijayawada

*Intermediate Education (Mathematics, Physics, Chemistry)*  
Percentage: 95%