

# JAYA PRASHANTH

Software Engineer

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## Education

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<b>Bachelors of Engineering in Computer Science</b>	<b>CGPA : 8.7</b>
Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi	2021 - 2025
<b>PUC – Science</b>	<b>CGPA : 9.3</b>
Sri Durgaparameshwari Temple PU College Mandar�hi	2019 - 2021
<b>Secondary Education(SSLC)</b>	<b>CGPA : 9.7</b>
Government High School, Goliyangadi	2017 – 2019

## Technical Skill

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**Programming Languages:** Java, Python, C

**Web Technologies:** HTML, CSS, Tailwind CSS, JavaScript, React.js

**Frameworks :** Fast API, Django, Node.js(Basic), Express.js(Basic)

**Databases :** MySQL, PostgreSQL, MongoDB(Basic)

**Tools & Platforms :** Git, GitHub, Alembic, VS Code, PyCharm

## Ongoing Training

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Currently pursuing a Python Full Stack Development course with hands-on sessions covering both frontend (HTML, CSS, JavaScript, React.js) and backend (Python, Django, FastAPI, Node.js basics). Gaining practical experience in building end-to-end web applications, APIs, and real-time project workflows.

## Internship Experience

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### Web Development Intern — Quantum Learnings, Bengaluru

- Developed a forum website using **Node.js, Express.js, JavaScript, HTML, and CSS**.
- Improved frontend and backend performance through optimized code and better application structure.

### Python Intern – Alar Innovations

- Worked on Python projects using **Google Colab**, focusing on automation and data visualization.
- Gained hands-on experience with **Python basics**, scripting, and graph generation.

## Professional Summary

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CSE graduate skilled in **Core Java, Python, and full-stack development** using FastAPI, React, TypeScript, Node.js, Express.js, and MongoDB. Hands-on experience building a **User Management & Workflow System** with JWT auth, RBAC, Argon2id hashing, and audit logging, and developing **AgriConnect**, a full-stack platform with deep-learning plant disease detection and e-commerce features. Familiar with **QE practices** like test-case design, API testing, debugging, and delivering clean, reliable solutions.

**Currently pursuing a Python Full Stack Development course** with hands-on training in frontend and backend technologies.

Gaining practical experience building **end-to-end web applications, APIs, and real-time project workflows**.

# Projects

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## AgriConnect – Agriculture Web Application

- Plant disease identification from images, crop growth-factor insights, farmer discussion forum, and centralized government scheme information.
- Worked on front-end development and handled the Government Schemes section with structured and user-friendly presentation.
- Integrated **deep-learning model** for disease detection and implemented responsive UI using React, Tailwind CSS, and TypeScript.

## User Management System

- Developed a secure backend using FastAPI with JWT authentication and Argon2id password hashing.
- Implemented user registration, login, password reset, roles, and permissions with account lockout features. Integrated PostgreSQL with SQLAlchemy and added complete login audit tracking.
- Designed the system with **scalable workflow architecture**, ensuring clean code structure, modular APIs, and future feature extensibility.

## Workflow Management System

- Developed workflow creation, update, delete, and delegation features with validation to prevent duplicates and ensure smooth multi-step approval processes.
- Built secure FastAPI endpoints integrated with PostgreSQL and SQLAlchemy, enabling efficient workflow retrieval and user-linked relationship queries.

## Job Scheduler System

- Designed and developed an **end-to-end Job Scheduler application** for managing jobs, execution steps, and scheduling configurations.
- Implemented validated CRUD APIs using FastAPI with relational mappings for jobs, steps, and schedules, integrated with PostgreSQL and SQLAlchemy.
- Built an interactive frontend interface for job creation, editing, listing, and deletion, ensuring seamless integration with backend services and a scalable, modular architecture.

## Certificates

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- Introduction to Ethical Hacking and Cybersecurity Workshop (Online Theory).
- Participated in National-Level Hackathon.

## Interpersonal Skills

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- Time Management – Managed project work and deadlines efficiently.
- Team Collaboration – Worked effectively with teammates to complete tasks smoothly.
- Continuous Learning – Actively learning new technologies and improving technical skills.
- Self-Driven Projects – Regularly build small projects to practice concepts and strengthen hands-on experience.

## Communication Languages : English, Kannada, Hindi, Tulu