

# SUJENDRA GIRI PRASAD BHARADWAJ

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## PROFILE SUMMARY, AWARDS AND RECOGNITIONS

Master's student in Computer Science at the University of Southern California (USC) with 2 years of experience in backend development, end-to-end testing, and automation; skilled in Python, Django, SQL, AWS, and Robot Framework; awarded Extra Miler at Wakefit Innovations for driving performance improvements, backend scripting, and contributions to product development and supply chain optimization.

## EDUCATION

**University of Southern California** Los Angeles, California  
**Master of Science in Computer Science** August 2025-Present

- Developing expertise in Advanced Analysis of Algorithms, Data Structures and Algorithms, System Design, Web Development, Database Management, Full Stack Development, Software Development, Microservices, Java, Python, C++, Software Engineering

**SJB Institute of Technology** Bengaluru, Karnataka  
**Bachelors' in Electronics and Communication Engineering** August 2019-May 2023

- Graduated with an aggregate of 3.56 GPA
- Skills Gained - Digital System Design, C and Python Programming, Data Structures and Algorithms, Web Development, VLSI, Verilog, Embedded C, Computer Organization and Architecture, Computer Networks

## EXPERIENCE

**Wakefit Innovations Limited** Bengaluru, Karnataka  
**Quality Assurance Engineer (Automation)** June 2023-July 2025

- Built backend solutions with Django and database systems (SQL, MongoDB, Redis), constructed database applications, web design with user experience focus, scalable microservices (gRPC, Docker), performed vulnerability analysis and vulnerability assessment, optimized server and web architecture, and implemented web analytics and operated Git/Bitbucket for version control
- Automated tests using Python (Selenium, Playwright, BeautifulSoup), validated APIs (Postman/Swagger), consumed and processed RESTful API JSON data to deliver actionable outputs, performed application security testing, executed load/performance tests (Grafana k6, TypeScript), and supported Information Technology/server monitoring, reducing regression by 35%
- Managed AWS deployments and server monitoring, implemented CI/CD with Jenkins, and drove Agile workflows operating Jira to enhance team efficiency and project delivery
- Optimized fulfillment workflows (500+ shipments) and led integration/testing of the Shipy logistics module, reducing delays by 7% and errors by 10%; leveraged application frameworks and analytics, and collaborated with developers, DevOps, and stakeholders on requirement analysis, scalable solutions and website promotion

**Ethnotech Academic Solutions** Bengaluru, Karnataka  
**Network Design Intern** October 2022-December 2022

- Engineered and managed company network via Cisco Packet Tracer, performing network administration with 15+ IPs, 200+ packet traces, and 100+ ping tests, increasing reliability by 11% and strengthening architecture and security; automated routine monitoring and troubleshooting processes, reducing downtime and improving network efficiency

## ACADEMIC PROJECTS

**Humanoid Robot on Military Applications** Bengaluru, Karnataka  
**Project Lead** January 2023-May 2023

- Spearheaded design of a humanoid robot prototype for military applications, integrating 5+ hardware modules and real-time software; developed Python-based speech recognition using Natural Language Processing (NLP), Artificial Intelligence (AI), and Machine Learning (ML) for 4+ remote commands, improving motion accuracy by 5% while coordinating a 4-member team
- Publication - International Journal of Innovative Science and Research Technology - Humanoid Robot on Military Applications - <https://www.ijisrt.com> › files › IJISRT24OCT1860

## Hyperspectral Image Compression using JPEG Algorithm

Bengaluru, Karnataka

### Project Lead

January 2022-May 2022

- Led development and program management of a Hyperspectral Image Compression algorithm in Python, leveraging OpenCV for image processing and pattern recognition, applying project governance practices while enhancing JPEG with Huffman coding and zigzag scanning, and cooperating with teammates to achieve ~4% faster compression and ~2% higher fidelity in large-scale satellite imagery
- Publication - International Journal of Innovative Science and Research Technology - Hyperspectral Image Compression using JPEG Algorithm - <https://www.ijisrt.com › files › IJISRT24OCT1859>

## Personal Projects

Bengaluru, Karnataka

### Self

April 2019-Present

- Developed and deployed projects—including a portfolio site, login page, and e-commerce dashboard—on GitHub, demonstrating hands-on experience in web development, UI design, and full-stack deployment(<https://github.com/Sujendra-23?tab=repositories>)

## SKILLS

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- Programming Languages, Frameworks and Databases: Java | Python | C++ | C | C# | Go | PHP | JavaScript | HTML/CSS | Django | SpringBoot | React.js | Next.js | Angular | Selenium | Playwright | Pytest | Typescript | gRPC | Docker | Allure | MySQL | PostgreSQL | MongoDB | NoSQL | Redis
- AI/ML & Data Science: NLP | PySpark | OpenCV | Scikit-learn | Data Analysis | Data Transformation | Data Visualization | Data Analytics | Power BI | Tableau | Hadoop | Data Warehouse | JSON | Scala | Statistics | Linear Regression | Data Mining | Big Data | Google Analytics
- Computer Science Fundamentals – Data Structures & Algorithm Design | OOP & Software Design | Database Management Systems | Application Architecture & Security | Discrete Event Simulation | Frontend & Backend Development | Code Review | API | Software Development | IT | Software Engineering | Software Deployment
- System, Networking and Distributed Systems: System Performance Optimization | Software Debugging | Modeling | Linux Networking | IoT | TCP/IP | DNS | SSH | SSL | Cisco Packet Tracer | Distributed Systems Design | Networking Protocols | Multi-threaded Programming | Multi-core & Multi-processor Systems
- Cloud & DevOps – Amazon Web Services (AWS) | Microsoft Azure (basic) | Docker | Kubernetes | Jenkins | Git | GitHub | Bitbucket | Apache Kafka | Confluence | Atlassian
- Design & Productivity: Product & UI/UX Design | Figma | Canva | Framer | Webflow | Adobe Illustrator | Photoshop | Creative Suite | Dreamweaver | Microsoft Office (Word, Excel, PowerPoint) | Jira | Notion

## ACTIVITIES AND INTERESTS

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- Graphic Designing | Photography and Cinematography | Coding | Youtuber | Aviation