

SUJENDRA GIRI PRASAD BHARADWAJ

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PROFILE SUMMARY

Master's student in Computer Science at University of Southern California (USC) with 2 years of Software Development and Testing experience. Skilled in Python, Django, SQL, AWS, and automation with Robot Framework

AWARDS AND RECOGNITIONS

- Extra Miler Award (Wakefit Innovations Limited): Extra Miler Award (Wakefit Innovations Limited): Recognized for enhancing system performance by developing backend scripts using Django , Go-lang and gRPC microservices, designing robust test strategies with Selenium and Playwright, managing end-to-end testing, and optimizing software-driven supply chain processes using Redis, MySQL, and AWS

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
(Automation Engineer-Software Development) Quality Assurance 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 using **ZAP tool**, 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

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 control software; implemented Python-based speech recognition using NLP/AI/ML and **PyAudio** to interpret 4+ remote commands, improving motion accuracy by 5% while leading 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 multiple projects—including a portfolio site, login page, and e-commerce dashboard—using **HTML, CSS, JavaScript, Django, MySQL, and Next.js**, showcasing hands-on expertise in web development, UI/UX design, backend integration, and full-stack deployment, all hosted on GitHub(<https://github.com/Sujendra-23?tab=repositories>)

SKILLS

- 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 | Information Technology | 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

- Coding | Entrepreneurship | Ecommerce | Photography and Cinematography | [Youtuber](#) | Aviation