RAVIRANJAN KUMAR

SOFTWARE DEVELOPER, TECH LEAD

CONTACT DETAILS

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CORE COMPETENCIES

- Technical Leadership
- Solution Architecture
- Team Management
- Project Delivery
- Cross-Functional Collaboration
- Scalable Systems Design
- Agile Methodologies
- Stakeholder Management
- Strategic Planning
- Cloud Architecture
- Technology Strategy
- Risk Management
- System Integration
- Mentoring & Coaching
- Code Quality Standards
- Resource Allocation
- Software Development Lifecycle

TECHNICAL SKILLS

- **Programming Languages**: Python
- **Frameworks**: Django, Flask (OOP, MVC)
- **Data Processing**: NumPy, Pandas
- **Task Queues & Schedulers**: Celery (Celery Beat, Workers)
- **APIs**: RESTful APIs, API Throttling, Kong API Gateway
- **Databases**: MySQL, PostgreSQL, Redis
- **Messaging & Streaming**: RabbitMQ, Apache Kafka, Zookeeper
- **Security**: HashiCorp Vault
- **Testing**: Pytest
- **Networking Protocols**: SNMP, TCP, UDP, HTTP
- **Cloud (AWS)**: Lambda, EC2, S3, ERS, SQS, SNS, API Gateway
- **Operating Systems**: CentOS, Linux, Windows
- **Third-Party API Integration**: ServiceNow, Prometheus, Razorpay, Paytm, SMS Country
- **Monitoring & Logging**: Splunk
- **Containerization & Orchestration**: Docker
- **Web Servers**: Apache Tomcat, Nginx
- **Tools**: Git, Bitbucket, Jira, SVN

👤 PROFILE SUMMARY

- **Dynamic Software Consultant and Tech Lead** with over **10 years** of experience in backend development, leveraging Python frameworks like Django and Flask to deliver robust, scalable, and maintainable software solutions.
- Proven expertise in **designing and developing enterprise-grade features**, including advanced data correlation, ITSM integrations, and automated workflows, to enhance system reliability and performance.
- Skilled in **data engineering and analytics**, having built high-throughput pipelines, RESTful APIs, and real-time data processing solutions for industries ranging from telecommunications to government projects.
- **roven Ability to Handle End-to-End Feature Ownership**, from initial design and technical consultation to successful deployment, consistently ensuring that project milestones are met and client expectations are exceeded.
- Adept at **cloud-native development on AWS**, utilizing services such as Lambda, EC2, S3, and API Gateway to drive digital transformation and optimize application performance.
- **Innovative problem-solver**, known for developing automated solutions and dynamic runtime modifications to address critical production issues, ensuring uninterrupted service delivery.
- **Strategic Contributor to System Architecture & Design**, actively participating in architecture discussions and suggesting innovative solutions to complex problems alongside architects and senior technical teams.
- **Client-Facing Technical Expert with a deep understanding of client requirements**, offering valuable input into feature design and ensuring seamless implementation of new functionalities in high-demand environments like Cisco Systems.
- Strong command over **databases and messaging systems**, including MySQL, PostgreSQL, Redis, Kafka, and RabbitMQ, to create resilient and efficient backend infrastructures.
- Recognized leader in **team collaboration and client interaction**, with a track record of gathering requirements, managing cross-functional teams, and delivering projects on time and within scope.
- **Award-winning professional**, honored as "Overall Best Employee – Cisco Division (2024)" and "Most Innovative Employer of the Year (2023 – HCLTECH)" for exemplary contributions to software development and operational excellence.
- Technologically versatile, with hands-on experience in **containerization (Docker)**, **networking protocols (SNMP, TCP, UDP)**, and **monitoring tools (Splunk, Prometheus)**, ensuring seamless integration and operational efficiency.
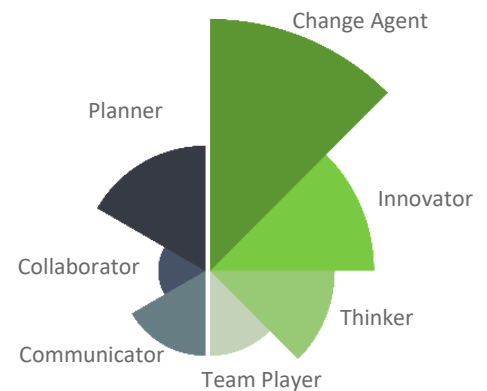
🎓 EDUCATION

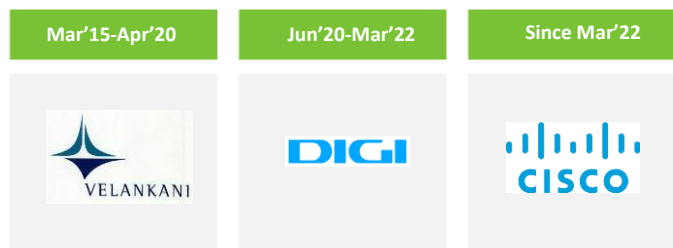Master of Computer Application (MCA), Hyderabad Central University | Jun 2011 - Jul 2014 | CGPA: 6.5

Bachelor of Computer Application (BCA), Sikkim Manipal University | Jun 2007 - Jul 2010 | Percentage: 65%

⚙️ SOFT SKILLS

Change Agent, Planner, Innovator, Collaborator, Thinker, Communicator, Team Player

👤 CAREER TIMELINE

Mar'15-Apr'20	Jun'20-Mar'22	Since Mar'22
VELANKANI	DIGI	CISCO

💼 WORK EXPERIENCE

Cisco Systems Inc via HCLTECH (Backend Developer, Tech Lead) Mar 2022 - Present

- Orchestrated direct collaboration with clients to elicit and analyze requirements, ensuring a thorough alignment of business objectives and technical specifications.
- Engineered comprehensive task plans and calculated precise time and resource estimates, driving the efficient execution of projects and the timely achievement of milestones.
- Led the design and development of critical features for Cisco's Data Analytics Solution, empowering advanced data visualization and actionable insights for enterprise users.

- Facilitated cross-functional collaboration to implement scalable solutions, optimize performance, and ensure seamless integration with legacy systems.
- Pioneered the design and implementation of advanced data correlation features, enabling automated pattern detection and cross-domain data analysis.
- Developed scalable algorithms for real-time data correlation, enhancing troubleshooting efficiency and bolstering predictive analytics capabilities.
- Constructed customizable correlation rules and anomaly detection systems, equipping users with actionable insights for better decision-making.
- Engineered ITSM features integrated with ServiceNow, refining incident, change, notification, and event management workflows.
- Automated incident ticket creation and routing by integrating monitoring tools with ServiceNow, slashing response times.
- Formulated event correlation rules to enhance incident triaging accuracy, significantly reducing false positives.
- Developed REST API integrations for real-time synchronization of configuration items and incidents, boosting cross-team collaboration and visibility.
- Designed custom dashboards for SLA tracking and performance analytics, enabling data-driven decision-making and automated email notifications based on SLA priorities.
- Innovated data sustainability features that minimized energy consumption and refreshed CO_2 intensity by location using real-time data analytics.
- Architected a high-throughput 5G data ingestion pipeline leveraging Kafka and file processing, capable of handling millions of events per second with low latency.
- Integrated controller systems via RESTful APIs and asynchronous messaging, enhancing system reliability and enabling dynamic real-time network adjustments.
- Streamlined device onboarding processes by developing an automated feature, drastically reducing manual setup time and leveraging Vault for Matrix and SNMP.
- Technologies Used: Python, Django, Flask, PostgreSQL, REST API, ServiceNow, Splunk, Kong, HashiCorp Vault, Kafka, Zookeeper, RabbitMQ, Prometheus, Pytest, etc.

Digi Telecommunication via TECH MAHINDRA (Software Developer, Tech Lead)
Jun 2020 - Mar 2022

- Engineered prototypes using [technology stack] and transitioned them into production-grade applications with a focus on scalability, performance, and maintainability.
- Developed a Back Office Management System using Python and REST APIs to enhance operations for sales teams, optimizing customer data management, sales reports, and workflows.
- Collaborated with cross-functional teams to integrate backend systems with frontend applications and third-party services.
- Automated solution scripts for the L4 support team, improving issue resolution times and operational efficiency by reducing manual intervention.
- Implemented dynamic monkey patches in production to address critical issues and ensure continuous service availability, with rigorous testing and monitoring post-deployment.

Velankani Groups (VEPL and BYDESIGN) – iCAS Software Developer | Mar 2015 - Apr 2020

- Developed tools for workflow automation and secure data processing for the Indian government's iCAS project, designing scalable backend systems using Python, PHP, JavaScript, and REST APIs integrated with MySQL to enhance operational efficiency and citizen-centric services.
- **PSI-SI- SERVER Apr, 2019- Apr 2020**: Engineered a PSI-SI Server web application to manage and broadcast DVB table data with Python and multicast IP broadcasting, automating table preparation and real-time MUX hardware delivery for efficient channel decoding.
- Integrated third-party vendor data using Python, MySQL, and Opencastor for seamless ingestion and transformation, building PHP modules for user interaction and visualization with optimized workflows and robust error handling.
- **Subscriber Management System, Apr 2018 - Apr 2019:** Designed and maintained the Subscriber Management System (SMS) using PHP, MySQL, and JavaScript, enabling efficient management of customer details, set-top box inventory, and TRAI-compliant reporting, with secure eKYC processes and payment gateway integration (Razorpay, Paytm).
- **Key Management System, Apr 2017 - Apr 2018**: Developed a REST API middleware for integrating third-party SMS with CAS, implementing secure key management for subscribers and channels using PHP, MySQL, and Slim framework, ensuring seamless STB control and compliance with business rules.
- **Message Queue System, Aug 2016 - Mar 2017**: Built a Message Queue System to process commands from the Key Management System, leveraging Python, PHP, Redis, and MySQL to prioritize and manage workflows while ensuring secure data integrity and scalability.
- **Sentinel License Automation Tool, Jan 2016 - July 2016**: Created the Sentinel License Automation Tool for dynamic license generation and management, integrating OpenSSL, AES-256, and RSA for enhanced compliance and security, with a user-friendly web portal for license issuance.
- **EPG Data Manager, Apr 2015 - Dec 2015:** Designed the EPG Data Manager to monitor FTP server changes, parse XML files, and synchronize data into MySQL, developing a Slim API for secure data sharing with automated workflows to reduce manual intervention.