

Ashwin Maruti Katala

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EDUCATION

Master of Science – Computer Science

University of North Carolina at Charlotte, USA

GPA: 3.90/4

August 2019 - May 2021

Bachelor of Engineering – Computer Engineering

University of Mumbai, India

GPA: 3.22/4

August 2012 - July 2016

TECHNICAL SKILLS

Programming	: Python, Java, C, JavaScript, Shell Scripting (Linux), SAP ABAP
Web Technology	: React.js, Node.js, Angular, HTML5, CSS, jQuery, RESTful APIs, Sass, Bootstrap
Frameworks & Technologies	: Flask, FastAPI, Hibernate, Spring MVC, AWS (RDS, EC2, S3, VPC, IAM), Docker, Kubernetes, Kafka, RabbitMQ, Ansible, Datadog, Agile, Scrum, Heroku, Git, Jenkins
Database & Visualization	: MySQL, MongoDB, Microsoft SQL Server, Splunk, Firebase, Redis, Grafana

WORK EXPERIENCE

Securonix Inc, Dallas, USA – Software Engineer

June 2021 - July 2024

- Designed and developed a full stack application that streamlined Spark job analysis and management, reducing Mean Time to Repair (MTTR) by 4 hours per team member daily.
- Successfully spearheaded the implementation of features that improved process efficiency, contributing to a \$1 million annual reduction in operational costs.
- Collaborated with stakeholders to gather requirements, refine features, and ensure seamless integration with existing systems.
- Contributed to the architecture design, database schema, and API development for scalability and performance optimization.
- Used agile methodologies for iterative development, delivering updates and incorporating feedback to refine functionality, achieving a 20% increase in feature delivery efficiency.
- Provided technical support and troubleshooting during deployment, ensuring smooth operation and cutting downtime by 1 hr.
- Engineered monitoring and alerting for Spark jobs and cloud systems, integrating auto-restart to ensure 99.99% uptime.
- Mentored team members and contributed key insights to elevate monitoring and observability standards.
- Integrated third-party APIs, enhancing data accessibility and operational insights, resulting in a 15% improvement in decision-making efficiency.
- Worked on migrating Spark applications from EMR to EKS (Elastic Kubernetes Service), analyzing performance and reducing infrastructure costs by \$2 million annually.
- Led cron-rebalancing project which reduced server outages, cutting peak CPU usage by 50% and optimizing resource costs.
- Developed automations for managing Kafka, Hadoop, Tomcat, and Spark servers, resulting in streamlined operations, reduced manual intervention by 60%, and improved system reliability and performance.
- Improved monitoring and performance analysis, enabling quicker issue resolution by creating and visualizing performance reports for cloud environments using Grafana dashboards.

Larsen & Toubro Infotech, Mumbai, India – Software Engineer

July 2016 - July 2019

Human Capital Management (HCM) Implementation

- Designed, developed, tested, and implemented software applications in an agile environment, covering prototyping, debugging, documentation, and full lifecycle management.
- Served as a key liaison between offshore teams and clients, translating business requirements into technical specifications to ensure alignment with customer demands.
- Demonstrated technical expertise in ABAP object-oriented programming, enhancing SAP standard applications (user exits, Business Add-Ins (BADI), enhancement points), Workflow, Adobe Forms, Batch Data Communication (BDC), and Smartforms.
- Collaborated closely with Infrastructure team to optimize custom programs and processes, enhancing system performance and mitigating potential interruptions.
- Coordinated with support teams, conducting Knowledge Transition sessions post-production, and conducted root cause analysis for persistent or major software and application issues.
- Notable Accomplishment:* Recognized for designing a user-compelling application integrating Webcam with SAP using OData, receiving accolades for innovative solution delivery.

SELECTED ACADEMIC PROJECTS

Finance Tracking Web Application ([Github](#)) (Master's- Network Based App Development)

November 2020 - December 2020

- Developed using D3.js, Node.js, and MongoDB, implementing CRUD operations and MVC pattern for UI.

Automated Disease Detection System Using Image Microscopy ([Tech Paper](#)) (Bachelor's-Final Year Project)

October 2015 - May 2016

- Integrated image processing algorithms using MATLAB for malaria parasite detection with a low error margin.

INTERNSHIP

Rashtriya Chemical Fertilizers Limited (RCF), India

December 2014 - January 2015

- Developed a shift task scheduler using HTML, CSS, and Vanilla JavaScript, integrating Firebase for user authentication.
- Conducted system analysis, unit testing, software quality assurance, and maintenance throughout the project lifecycle.