# Krishna Murthy Surya Narayanan

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## WORK EXPERIENCE

**NamSys Inc.**                                                   **Toronto, Ontario**
*Senior Software Developer*                                      *Nov 2021 - Present*

- Designed and implemented a secure, scalable off-site cash processing platform using Spring Boot and Vaadin 21, boosting financial workflow performance by 40% and implementing optimized API transfers for reliability.
- Introduced and deployed the organization's first automated test suite, expanding test coverage by 65% and cutting manual testing time significantly.
- Built and integrated microservices and REST APIs using Spring Boot and Docker with third-party financial systems, standardizing check scanning workflows and reducing subscription costs by 75%.
- Engineered automated data pipelines that boosted operational efficiency by 35% while eliminating manual intervention and reducing data-entry errors.
- Conducted peer code reviews, applied TDD, and practiced pair programming to enforce coding standards and enhance code maintainability.
- Mentored junior developers on design patterns, CI/CD practices (Jenkins, Maven, Git), and enterprise-grade Java development.
- Collaborated with product managers and stakeholders to optimize requirement specifications, leading to a 30% reduction in development cycles and accelerating project delivery timelines by 20%.

**SaskTel**                                                      **Regina, Saskatchewan**
*Web Developer*                                                  *May 2021 - Sep 2021*

- Spearheaded development of a sentiment analysis system leveraging TF-IDF and Word2Vec, boosting classification accuracy to 85% and doubling NLP processing speed to enable real-time, multi-platform sentiment monitoring.
- Formulated a real-time event-driven pipeline using Kafka and InfluxDB, enabling seamless ingestion of over 1 million high-frequency events per day for time-series analytics and frontend dashboards.
- Developed and maintained REST APIs using Spring Boot, enabling seamless integration with 5+ downstream analytics tools (Power BI, Tableau, Grafana) while consuming external APIs to aggregate and process data efficiently.
- Collaborated with senior engineers in Agile sprints, leveraging Bootstrap and modern frontend tooling to deliver scalable, high-performance customer analytics solutions.

**Accenture Solutions Pvt. Ltd.**                               **Hyderabad, Telangana**
*Associate Software Engineer*                                    *Mar 2018 - Sep 2019*

- Developed and optimized scalable enterprise applications using Java, Spring MVC, JSP, and JavaScript, improving load times and enhancing user experience across 10+ client-facing solutions in the automotive domain.
- Developed a comprehensive real-time metrics dashboard leveraging DB2 and Grafana, enabling proactive monitoring that reduced system downtime by 30%.
- Optimized Jenkins and Git CI/CD pipelines by monitoring performance metrics and implementing proactive enhancements, reducing rollback incidents by 15% while ensuring consistent code quality.

**National Institute of Technology**                            **Mangalore, Karnataka**
*Research Assistant*                                             *Apr 2017 - Jul 2017*

- Developed a robust music mood prediction model in MATLAB using Random Forest and Naïve Bayes, ingesting over 10,000 audio files and achieving 92% accuracy in classifying emotional tones across diverse genres.
- Conducted comprehensive feature correlation analysis on over 150 data variables, identifying key patterns that improved the music recommendation model's accuracy by 8%.
- Conducted comparative evaluations with leading music recommendation systems, validating enhanced performance and achieving a 3% higher accuracy in personalized music suggestions.

## EDUCATION

**University of Regina**                                         **Regina, Saskatchewan**
*Master of Science in Computer Science*

## SKILLS

- **Languages:** Java, JavaScript, Python, React, Node, Angular, HTML, CSS, C, and C++.
- **Frameworks & Tools:** Spring Boot, Vaadin, NestJS, Maven, Jenkins, Docker, and GIT.
- **Python Libraries:** NumPy, Pandas, OpenCV, PyTorch, and Matplotlib.
- **Machine Learning:** Regression, Classification, Clustering, and Natural Language Processing (FastText, BERT).
- **Cloud & Databases:** AWS, Azure, Docker, Kafka, MySQL, PostgreSQL, MongoDB, and InfluxDB.

## ACHIEVEMENTS

- Certified AWS Developer – October 2024.
- Published research: "UAV-based data communication using Wireless Sensor Networks," ICISS – July 2021.