

Krishna Murthy Surya Narayanan

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WORK EXPERIENCE

- NamSys Inc.**, Toronto, Canada | *Senior Software Developer* **Oct 2021 - Present**
- **Architected and developed a web-based offsite cash processing platform** using **Spring Boot and Vaadin 21** enabling secure and scalable handling of financial workflows for banks and armored carriers.
 - Established **comprehensive automated testing practices** to strengthen system reliability, reduce release defects, and accelerate delivery timelines.
 - Designed and integrated **microservices and REST APIs** with third-party solutions (e.g., Ranger Silver Bullet), standardizing the check scanning process and reducing subscription costs by **75%**.
 - Automated data population pipelines that improved operational efficiency by **35%**, minimizing manual intervention and data-entry errors.
 - Performed **peer code reviews, pair programming, and TDD**, ensuring adherence to coding standards and maintainability.
 - Mentored junior developers in **design patterns, CI/CD pipelines (Jenkins, Maven, Git), and enterprise Java development best practices**.
 - Partnered with product managers and stakeholders to gather requirements, validate designs, and produce technical documentation supporting enterprise adoption
- SaskTel**, Regina, Canada | *Web Developer-Co-op* **May 2021 - Sep 2021**
- Built a **sentiment analysis system** using TF-IDF and Word2Vec, improving customer review classification accuracy to **85%**.
 - Designed a **real-time event-driven pipeline** using **Kafka** and ingested data into **InfluxDB** for time-series analytics.
 - Developed **REST APIs** supporting integrations with downstream analytics tools.
 - Collaborated with senior engineers in **Agile sprints**, delivering scalable customer analytics solutions
- Accenture**, Hyderabad, India | *Associate Software Engineer* **Mar 2018- Sep 2019**
- Developed enterprise applications using **Java, Spring MVC, JSP, and JavaScript**, contributing to client-facing solutions across domains.
 - Built a **real-time metrics dashboard** with DB2 and Grafana, enabling proactive monitoring of service performance.
 - Designed and maintained **CI/CD pipelines with Jenkins and Git**, improving deployment frequency and reducing release errors.
 - Collaborated with senior architects to implement **modular designs** and reusable components for large-scale systems.
- National Institute of Technology**, Karnataka, India | *Research Assistant-Internship* **Apr 2017 – July 2017**
- Developed a **music mood prediction model** using Random Forest and Naïve Bayes in MATLAB.
 - Performed **feature correlation analysis** to optimize model performance, supplementing recommendation system design.
- Defence Research and Development Org.**, Hyderabad, India | *Test Engineer-Internship* **Oct 2016 – Dec 2016**
- Designed and tested REST APIs for Navigation and Propulsion systems, using Postman for debugging service layer issues.
 - Supported **trajectory control and dynamic reprogramming**, improving system reliability and functional outcomes.

TECHNICAL SKILLS

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|--------------------------------|--|
| Languages: | Java, JavaScript, Python, React, Node, Angular, HTML, CSS, C, and C++. |
| Frameworks & Tools: | String 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, PostgresSQL, MongoDB, and InfluxDB. |

EDUCATION

University of Regina, Regina, SK **May 2021**
Master of Science in Computer Science | **Cumulative GPA: 3.90/4.0**

ACHIEVEMENTS & PUBLICATION

- **Published a paper** titled “UAV-based data communication using Wireless Sensor Networks” at ICISS 2021.
- **AWS Certified Developer – Associate** certification, October 2024.