

# KAUSHIK PATTIPATI

+1(402) 320-3389 ♦ New York City, NY

[kaushikpattipati@gmail.com](mailto:kaushikpattipati@gmail.com) ♦ [linkedin.com/in/kaushik-pattipati/](https://linkedin.com/in/kaushik-pattipati/) ♦ [github.com/patkaush](https://github.com/patkaush) ♦ [kaushik-portfolio.com](https://kaushik-portfolio.com)

## OBJECTIVE

Results-driven engineer with 4 years of experience in building scalable applications using Java, AWS, and Full-Stack Development. Passionate about learning and leveraging cutting-edge technologies to deliver solutions.

## SKILLS

<b>Full-Stack Development</b>	Java, Python, JavaScript, Spring Boot, FastAPI, Django, ReactJS, REST APIs
<b>Databases &amp; Cloud</b>	SQL, NoSQL, MongoDB, PostgreSQL, Docker, Kubernetes, AWS
<b>Automation &amp; Testing</b>	Selenium, JUnit, Mockito

## EXPERIENCE

<b>IT Architect Intern (Software Engineer)</b> <i>Ameritas (Insurance company)</i>	May 2024 - Present <i>Lincoln, NE</i>
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- Engineered a **Java SDK** for **Abacus REST services**, streamlining API integration for 3+ cross-functional teams, resulting in a 50% reduction in time and expertise needed to understand Abacus APIs.
- Converted **7 policy management user edits** from **COBOL** to **Java** by interpreting and implementing logic from technical documentation, enabling modernization of legacy systems.
- Implemented more than 5 **React UI** features for Intranet website, enhancing user experience, and responsiveness.

<b>Graduate Student Worker</b> <i>University of Nebraska - Omaha</i>	Sep 2023 - Mar 2024 <i>Omaha, NE</i>
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- Generated bridge simulations in **Unreal Engine** and integrated **UAV drones** using the **AirSim plugin** to train **reinforcement learning agents** for structural health monitoring and improve agent accuracy.
- Assisted researchers in evaluating **Llama2 and GPT3.5 capabilities** based on document text summarization for developing a chat bot relevant to policy claims.
- Implemented CI/CD workflows using Docker, AWS CodePipeline, and Jenkins for rapid deployment.
- Devised a web interface using **Py Streamlit** for gene expression analysis, visualizing heatmaps and hierarchical clusters with **Seaborn** and **Matplotlib**. Improved research team's pattern recognition efficiency by 70% through enhanced data visualization.

<b>Software Engineer</b> <i>OpenText</i>	Sep 2021 - Aug 2023 <i>Bangalore, India</i>
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- Full stack **Java software engineer** for a B2B product, called Biz manager, played a pivotal role in the **software development** of more than 3 major feature releases of the product, increasing the overall client experience by 50%.
- Resolved more than 10 **production bugs**, increasing the system stability and achieved a 80% reduction in vulnerabilities, enhancing overall code quality and software security.
- Optimized database query performance by designing and implementing efficient **SQL queries**, achieving a 10% faster response time when fetching thousands of records.
- Implemented a **Spring Boot service** with **MongoDB** to transfer 1,000+ user profiles for network protocols in BizManager . The solution saved 50+ hours of manual effort and provided error-free data migration.

<b>Engineering Intern</b> <i>OpenText</i>	May 2021 - Sep 2021 <i>India</i>
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- Engineered and implemented automated test suites using the **Selenium Framework**, resulting in a 30% reduction in manual efforts and ensuring a 20% increase in testing efficiency.

## EDUCATION

<b>Master of Science in Computer Science</b> <i>University of Nebraska, CGPA: 3.89/4.0</i>	Aug 2023 - May 2025 <i>Omaha, NE</i>
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<b>Bachelor of Engineering in Computer Science</b> <i>Jawaharlal Nehru Institute of Technology, CGPA: 8.33/10.0</i>	July 2018 - June 2022 <i>India</i>
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## PROJECTS

**LearnDocs** Implemented a RAG solution using **Amazon Bedrock**, automating data ingestion from **S3** and a web crawler into **OpenSearch Serverless** for Q&A, with AWS CDK for deployment, enhancing user learning by integrating text summarization, generating interactive quizzes, and enabling real-time interaction.