

# Akshay Kumar Pendyala

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## Summary

Software Engineer with two years of experience and a strong Java foundation, skilled in building and maintaining robust financial and web applications. Proven success in enhancing system performance and security for large-scale financial assets. Poised to contribute to risk detection and mitigation efforts by collaborating with senior engineers and leveraging agile practices.

## EDUCATION

### California State University, East Bay

Aug 2023 - May 2025

*Master of Science, Computer Science*

- **Coursework:** Machine Learning, Operating Systems, Advance Algorithms, Theory of Computation, Cloud Computing, Web Technologies, Cybersecurity

### Sreenidhi Institute of Science and Technology

Aug 2017 - Jul 2021

*Bachelor of Technology, Computer Science and Engineering*

- **Coursework:** Operating Systems, Design and analysis of Algorithms, Theory of Computation, Cloud Computing, Web Technologies, Cybersecurity, Data Structures, DBMS, Java, Python, C, Data warehousing and data mining

## WORK EXPERIENCE

### Infosys

Oct 2022 - Jun 2023

*Software Engineer*

- Led the successful migration of a critical reporting tool from IBM Alphablox to native HTML, CSS, and JavaScript, improving system performance and reducing maintenance overhead for a team of 10.
- Developed dynamic client reports using Ext.js, streamlining financial transaction processing for \$1B+ in assets while reducing manual processing by 90%.
- Strengthened application security by mitigating vulnerabilities such as SQL Injection, XSS, and CSRF attacks identified through Checkmarx reports, ensuring compliance with security standards.
- Optimized backend service deployment pipelines with Jenkins CI/CD, enhancing code quality and reducing regression issues by 40% through proactive testing and vulnerability checks.

### Infosys

Jul 2021 - Sep 2022

*Software Engineer Trainee*

- Engineered performance enhancements for 10+ mission-critical systems by optimizing data processing workflows and reinforcing reliable, Java-based backend operations.
- Designed and implemented a financial data aggregation feature using Java, Ext.js, and Oracle Essbase, effectively reducing manual reporting efforts by 60% and illustrating robust object-oriented programming practices.
- Mentored 6 new team members, delivering comprehensive training on internal applications and best practices, which accelerated their transition from trainees to full-time contributors.

### Scytale Alpha Private Limited

Dec 2020 - Jan 2021

*Software Engineer*

- Analyzed client requirements to identify and resolve 10+ key UX/UI issues, improving overall user engagement and interface effectiveness.
- Enhanced website responsiveness using Bootstrap, achieving seamless performance across devices and boosting mobile traffic.
- Automated data collection processes by integrating a form submission system with the Google Spreadsheets API, thereby improving operational efficiency.
- Revamped the company's website, leading to a 60% increase in page views and enhanced brand visibility.

### Crio.Do

Feb 2020 - Apr 2020

*Software Engineer Intern*

- Developed a mobile application that analyzes food images using computer vision techniques to generate descriptive tags, demonstrating the effective application of advanced programming skills.
- Integrated API functionalities to automate posting of image details on Facebook and uploading photos to Pinterest, showcasing proficiency in RESTful APIs and streamlined backend integrations.

## PROJECTS

### LinkedIn Job Feedback Summarizer

- Designed and deployed an API-driven feedback system using AWS EC2 and S3, enabling real-time submission and retrieval of job-related feedback with efficient JSON-based data storage.
- Implemented NLP algorithms on the server to analyze and summarize user feedback, enhancing the decision-making process for job seekers through concise, data-driven insights in the Chrome extension.

### Book Recommender System

- An Online bookstore built using HTML, CSS, JavaScript, Flask that shows all the available books, users can search for books, give ratings, add books to cart, purchase books.
- The recommender system is developed using a KNN model that takes in ratings given by user, interests and suggests books to users.
- There is also a dashboard for sellers to see the analytics of the sales.

## SKILLS

- **Programming Languages:** C, C++, Java, Python, Go, JavaScript, SQL, PHP
- **Databases:** MySQL, Oracle DB, Oracle Essbase, Teradata DB, IBM DB2, Amazon RDS, NoSQL, MongoDB
- **Frameworks:** React.js, Ext.js, Node.js, Express.js, Flask, Bootstrap
- **Dev Tools:** Postman, Jenkins, GitHub, Git, Heroku, Netlify, AWS, Google Firebase, Apache, Tableau, Docker, Visual Studio, Checkmarx, AGILE, JFrog, RESTful APIs, Cloud services