

Kamaljit Aulakh

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EDUCATION

Syracuse University, College of Engineering and Computer Science, Syracuse, NY
Master of Science in Computer Science
Data Structures and Algorithms, Computer Security, Object Oriented Design

August 2023 – May 2025
GPA: 3.88

Mumbai University, Ramrao Adik Institute of Technology, Mumbai, India
Bachelor of Engineering in Information Technology
Web and Internet Programming, Android Programming, Database Management Systems

August 2017 – June 2021
GPA: 3.74

EXPERIENCE

Web and Data Applications Developer, Open Source Program Office - New York, USA *October 2024 – Current*

- Collaborated with OSPO at Syracuse University to develop a web portal enabling 200+ faculty and students to explore **data storage options and sharing solutions** using **WordPress**, incorporating a custom theme, **PHP plugin**, and frontend components using **React.js**
- Responsibilities included designing **system architecture** for scalability and creating 15+ technical documents and **UML diagrams**. Conducted 20+ surveys and interviews with faculty to gather user insights.

Global Integrations Team Summer Intern, Capri Holdings (Michael Kors) - New Jersey, USA *June 2024 – August 2024*

- Developed end-to-end data transformation pipelines using **Python** scripts on **EC2**, processing over 5 million records from S3 and writing them to **Microsoft Dataverse** tables.
- Designed an application using **Power Apps**, **Power Automate**, and **SQL** to facilitate easy access to internal data records for a team of 80 employees monitor audit changes, and provide analytics via **Power BI** dashboards.
- Streamlined change data capture process using **debezium SQL connector** to send data to **Kafka** topic for processing before sending to an end system thus helping the team to migrate to an open source solution.

Software Engineer, IDFC FIRST Bank Ltd, Bangalore, India *June 2022 – August 2023*

- Created RESTful services with **Java Micronaut** and **Kafka** for mobile and internet banking for various features, resulting in a 10% increase in the opening of zero-balance savings accounts online.
- Led the development of an admin panel implementing responsive UI components using **React.js** making it easier to render conversion data stored in **Aerospike DB**, generating reports, and diagrams plotted using the **React Google Charts** library.
- Ensured test-driven development using **JUnit** test suites achieving up to 90% code coverage, integrated **SonarQube** for static code analysis to ensure code quality, and performance testing pipelines using **JMeter** to identify bottlenecks and optimize system performance.
- Used **Docker**, **Kubernetes**, and **Helm charts** to build and manage CI/CD pipelines on GoCD to achieve a 98% uptime in production deployments.

Systems Engineer, Tata Consultancy Services, Thane, India *June 2021 – June 2022*

- Worked in an agile team writing business logic across 10+ microservices using **J2EE**, **Spring MVC**, and **Spring Boot**, enhancing scalability and performance.
- Collaborated on the front end with **ReactJS** and **Redux** to integrate security enhancements, including a behavioral biometrics solution (BioCatch), leading to a 37% improvement in bot detection accuracy and reducing false positives by 20%

PROJECTS

Book Store Point Of Sale Mobile Application *Sep 2024 - Nov 2024*

- Developed an Android mobile application enhancing inventory tracking, search, and checkout processes with automated resale price calculation, supported by a RESTful API-driven data server.
- **Built With:** Kotlin, Android Studio, Room DB, MySQL, Firebase, Springboot

Cataract detection and classification: [Publication Link](#) *June 2020 – March 2021*

- Teamed up with two classmates to conduct a comparative study identifying and classifying cataracts by comparing existing vectorization, machine learning, and deep learning models and subsequently building CNN model achieving an accuracy of 96% using combined feature vectors from the SIFT-GLCM algorithm
- **Built With:** Python, Keras, OpenCV, Flask, Matplotlib

SKILLS

Technical Skills: Java, Python, JavaScript, Docker, Kubernetes, Helm Charts, Prometheus, Elastic Stack, Data Structures and Algorithms, HTML5/CSS3, PHP, Aerospike, MongoDB, SQL, Unix/Linux, Automation/Manual software testing.

Tools: GoCD, Figma, Adobe XD, Jira, BitBucket, Jmeter, Grafana, Confluence, Microsoft Word, Excel, PowerPoint, Postman, and Git.