# Kamaljit Aulakh

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## EDUCATION

**Syracuse University,** College of Engineering and Computer Science, Syracuse, NY       *August 2023 – May 2025*
Master of Science in Computer Science                                                                                    **GPA: 3.88**
*Data Structures and Algorithms, Computer Security, Object Oriented Design*

**Mumbai University,** Ramrao Adik Institute of Technology, Mumbai, India       *August 2017 – June 2021*
Bachelor of Engineering in Information Technology                                                                   **GPA: 3.74**
*Web and Internet Programming, Android Programming, Database Management Systems*

## EXPERIENCE

**Web and Data Applications Developer,** Open Source Program Office - New York, USA       *October 2024 – Current*
➔ Built platform enabling 200+ faculty and students to explore <u>data storage solutions</u> using **WordPress**, integrating a custom theme and plugin using **PHP**, ensuring Web Content Accessibility compliance of UI using **WAVE**.
➔ Currently developing a **JSON** data synchronization bridge between two platforms, implementing the backend with **Node.js** supported with technical documentation and **UML diagrams**.

**Global Integrations Team Summer Intern,** Capri Holdings (Michael Kors) - New Jersey, USA       *June 2024 – August 2024*
➔ Designed an application using **Power Apps, Power Automate, 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 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 a team of 4 to build an admin panel implementing responsive UI components using **React.js** making it easier to render conversion data stored in NoSQL solution - **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       *Oct 2021 – June 2022*
➔ Worked in an agile team writing backend 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

**BookStore 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 REST 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, Elasticsearch, Adobe XD, Jira, BitBucket, Jmeter, Grafana, Confluence, Microsoft Word, Excel, PowerPoint, Postman, and Git.