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**

Mumbai University, Ramrao Adik Institute of Technology, Mumbai, India   *August 2017 – June 2021*
Bachelor of Engineering in Information Technology   **GPA: 3.74**

EXPERIENCE

Web and Data Applications Developer, Open Source Program Office - New York, USA   *October 2024 – Current*
- Started working with OSPO at Syracuse University, to build a web portal for faculty and students to explore available options of **data storage and sharing** solutions of sensitive research data.
- Currently in the process of building the **system architecture** along with conducting surveys and interviews with faculty.

Global Integrations Team Summer Intern, Capri Holdings (Michael Kors) - New Jersey, USA   *June 2024 – August 2024*
- Developed end-to-end data pipelines for **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 APIs 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 team in making an internal admin panel with **React**, and DB operations on **Aerospike** DB.
- Wrote **JUnit** test targeting up to 90% code coverage, set up pipelines to run **SonarQube** analysis and performance testing using **Jmeter**.
- Used **Docker, Kubernetes,** and **Helm charts** to build and manage deployment pipelines on GoCD to achieve a 98% uptime in production deployments.

Systems Engineer, Tata Consultancy Services, Thane, India   *June 2021 – June 2022*
- Implemented business logic across 10+ microservices using **Spring MVC** and **Spring Boot frameworks**, enhancing scalability and performance.
- Collaborated on the front end with **React** 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%

Junior Full Stack Developer Intern, Mulberry Solutions, Kharghar, India   *July 2020 – September 2021*
- Worked towards the development of responsive web pages and components based on wireframes using **HTML5**, **CSS3** with Flexbox, and Bootstrap, optimizing cross-browser compatibility and user experience across devices.
- Led the full-cycle creation of a CRM portal, from conception design on **Figma** to launch, utilizing a stack of **JavaScript**, **AJAX**, **PHP**, and **MySQL** to enhance customer data management and operational efficiency.

PROJECTS

Cuse Alumni Groves - Integrated Platform for Syracuse Students and Alumni   *Jan 2024 – March 2024*
- Designed and implemented a responsive frontend using **React.js** for Syracuse University students and alumni, ensuring seamless navigation for students and alumni.
- Built a robust backend with **Node.js** and **MongoDB**, supporting efficient data management, real-time messaging, and fostering networking and mentorship within the community.

Cataract detection and classification with Machine learning and Transfer learning   *June 2020 – March 2021*
- Teamed up with two classmates to conduct a comparative study between existing vectorization, machine learning, and deep learning models incorporating **Python libraries** such as Pandas, OpenCV, matplotlib, and Keras, to build a vector most effective in identifying and classifying cataracts.
- Research paper presented and published at ICAIAA 2021 (International Conference on Artificial Intelligence: Advances and Applications - Springer).

SKILLS

- **Technical Skills:** Java, Python, JavaScript, Docker, Kubernetes, Helm Charts, Prometheus, Elastic Stack, Data Structures and Algorithms, HTML5/CSS3, PHP, Aerospike, MongoDB, SQL, Automation/Manual software testing.
- **Tools**: GoCD, Figma, Adobe XD, Jira, BitBucket, Jmeter, Grafana, Confluence, Word, Excel, Postman, Git.