Gowri Sankar Koushik Pasumarthy

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EDUCATION

SUNY Stony Brook University, Stony Brook, NY   **Aug 2023 – Dec 2024**

Master of Science in Computer Science   *GPA: 3.78/4.00*

Course Work: Theory of Database, Machine Learning, Operating Systems, Data Science, Analysis of Algorithms, Data Structures, Object Oriented Programming, Design Patterns, Distributed Systems

SKILLS

- **Languages:** Java (Spring Boot), Python, C/C++, C#, JavaScript, HTML, CSS, SQL, NoSQL
- **Technologies/ Frameworks:** Redux, REST, SOAP, API, JSON, Node.js, Express JS, Flask, Django, ReactJS, Angular, Vue, Relational Databases, MySQL, MongoDB, PostgreSQL, Linux, Grafana, GraphQL, Prometheus, Load balancers, Agile, IntelliJ, Jira, Salesforce
- **Cloud/ DevOps:** Microsoft Azure, AWS, GCP, GitHub, Jenkins, Docker, Ansible, Terraform, Kubernetes, ArgoCD, Pipelines, CI/CD

EXPERIENCE

The Integrity Company   May 2024 - Aug 2024

Software Engineering Intern   *Ocean Side, CA*

- Developed the company web portal using **React.js, Node.js, Django, MySQL** for smooth communication between insurers and translators.
- Implemented secure user authentication and developed **Rest APIs** using **Auth0** and ensured effective version control using **Git**.
- Enhanced code reliability through testing using **Jest**, **Postman** and deployed on **AWS**, enhanced performance and monitoring by 50%.
- Automated sales workflows in **Salesforce CRM** via **Process Builder** and **Flow** for key business processes, Increased revenue by 40%
- Streamlined **Agile** project management by automating pull request alerts and integrating **Jira** ticketing with **Slack** using **GitHub Actions.**

Stony Brook Hospital   Jan 2024 - Present

Full stack Developer   *United States*

- Built the web app from scratch using **React** and **Flask**, applied UX best practices, improved navigation and reduced record retrieval times.
- Reduced manual data entry time by 70% by building an EMR management app using **PyPDF** for PDF parsing by encounter ID.
- Improved data retrieval speeds through optimized **MongoDB** indexing and data structure design, enhancing user experience.
- Enabled secure, structured EMR queries by integrating Apache Hive on **HDFS** with Microsoft SSO and **OAuth**.

Bajaj Finserv   Jan 2021 - Jun 2023

Software Engineer   *Bangalore, India*

- Enhanced POS loan application interface using **React** and **TypeScript**, improving responsiveness across web and mobile by 90%
- Implemented CI/CD pipeline with **GitLab** and **Jenkins** to automate testing with **JUnit** and **Mockito** for high code coverage.
- Architected microservices for a 3-in-1 application with **Java Spring Boot**, integrating REST APIs and **Kafka** for real-time data streaming, supporting scalability for over 100 million downloads on Google Play Store.
- Deployed containerized applications using **Docker** and **Kubernetes** to scale infrastructure, boosting operational efficiency by 40% and enabling optimized data retrieval with **CosmosDB**.
- Streamlined integration and deployment by setting up CI/CD pipelines in **Azure DevOps**, increasing deployment speed by 30% and ensuring build consistency.
- Led migration of legacy reporting system to a modern web application using **Spring Boot** for backend and **Angular** for frontend.
- Automated financial document delivery with **Python** and **Azure Blob Storage**, reducing manual tasks by 40% and increasing operational efficiency with secure scheduling.
- Spearheaded code reviews and documentations to ensure **high code quality**, **maintainability** and adherence to best practices.

PROJECTS

FarmFresh - Streamlined DevOps for E-commerce

- Engineered 'Farm Fresh' application using **Java**, **Spring Boot**, **React**, and **Hibernate**, enhancing search functionality with **ElasticSearch** and ensuring scalability with **MongoDB**, achieving user satisfaction.
- Enhanced **Restful APIs** with **JWT** and **PostgreSQL** for data management, automated CI/CD pipelines with **Jenkins** and **Kubernetes.**

Distributed Banking System

- Implemented a modular and scalable **microservices** architecture using **Java**, **Spring Boot**, and distributed database **Cassandra**.
- Utilized **Apache Kafka** for asynchronous communication and **RPC**, ensuring decoupling and improved data flow management.
- Developed robust **RESTful APIs** for inter-service communication and client interactions, monitored with **Prometheus** and **Grafana**.