Athira Kumar

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Grace Hopper Celebration 2022 Attendee (vGHC '22)

EDUCATION

M.S. Computer Science, May 2024, GPA: 4.0/4.0

San Jose State University, San Jose, CA

B.E. Computer Science and Engineering, Jun 2020

PSG College of Technology, Anna University, Coimbatore, India

RELATED COURSEWORK

Programming in C/C++, Java, Data Structures and Algorithms, Database Management Systems, SQL/NoSQL Databases, Object-Oriented Design, Operating Systems, Computer Networks, Machine Learning

TECHNICAL SKILLS

Languages	Python, C++, JavaScript, Powershell, Java, R
Databases	SQL, MSSQL, PostgreSQL (Relational Database), MongoDB, Cassandra (NoSQL)
Web Development	HTML5, CSS, Flask, Django, Node.js, Spring Boot, React.js, Express.js, REST API
Machine Learning	Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn
Tools	Git, Docker, AWS Cloud (EC2, S3), Jenkins, JIRA, PowerBI, Agile Methodologies

WORK EXPERIENCE

Software Engineer, Jul 2020 - Jul 2022

Societe Generale Global Solution Centre, Bangalore, India

- **Scalable Microservices & APIs:** Architected reliable & scalable microservice APIs in an Infrastructure-as-a-Service feature team for the internal cloud platform.
- **SLA Breach Web Dashboards:** Led a project to develop a web dashboard for SLA breach calculations using React frontend and Flask backend, resulting in cost savings of **0.25 FTE**.
- **Automated Incident Resolution Tool:** Designed and developed a Smart Incident Manager tool to automate incident assignment and remediation, using PowerShell. This helped in preventing human error and slashed **15+ manual hours** per week.

Software Engineer Intern, Dec 2019 - May 2020

Societe Generale Global Solution Centre, Bangalore, India

- **Inventory Management Web Application:** Enhanced user experience by launching an inventory management web application developed using Python, Flask, and MSSQL, saving costs of **0.3 FTE.**
- **Migration of Legacy Portal:** Drove the migration of a legacy health check portal to a new environment (Python, Flask, MongoDB), cutting costs by **33%**.

PROJECTS

Sports Dashboard - Full Stack Web Application, Nov 2022   **GitHub**

- Created a web dashboard for Indian Premier League cricket data. Allows users to browse teams and view past games' details and wins and losses ratios, made accessible by team and tournament year.
- Uses Spring Boot for the backend, and React.js for the frontend.

UberEats Prototype - Full Stack Web Application, Oct 2022   **GitHub**

- Created an UberEats application that allows customers to manage profiles, search for restaurants and dishes, and place orders. It also allows restaurants to edit dish menus, view orders, and update the delivery status.
- Implemented using (1) MySQL, Express.js, React.js, and Node.js. To make it scalable, moved it to (2) MongoDB, ExpressJS, ReactJS, NodeJS, Kafka, and JWT.

Classification of EEG Signals using Machine Learning, May 2020

- Created a machine learning model to predict students' understanding capability by monitoring brain activity.
- Used Principal Component Analysis and Independent Component Analysis as feature selection algorithms. Classified data using support vector machines, decision trees, logistic regression and artificial neural networks.

ACHIEVEMENTS

- French - DELF B1 certified.
- Head of English Literary Society, PSG College of Technology (2018-2020). Led team of 50 students and organized debates, plays and literary fests for 500+ students.