Anith Joy

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EDUCATION

Stevens Institute of Technology, School of Engineering   **Hoboken, New Jersey**
Master of Science in Computer Science   May 2024
University of Mumbai   **India**
Bachelor of Engineering in Computer Engineering   June 2021

SKILLS

- **Programming Languages:** Python, JavaScript, C++, Java, C, SQL, PHP, GraphQL, TypeScript
- **Technologies:** Node.js, Django, Express, Numpy, Pandas, Matplotlib, Git, GitHub, Docker, Beautiful Soup, Socket.IO, Spring
- **Front-end:** React, Next.js, HTML, CSS, Sass, Bootstrap, Redux, Vue.js
- **Database:** MySQL, MongoDB, ElasticSearch, Oracle, ORM, Postgres
- **Caching:** Redis, Apollo Client
- **Cloud Service:** AWS, Heroku, Firebase
- **Operating Systems/IDE:** Windows, macOS, Linux, VS code, Eclipse, NetBeans, Pycharm
- **Relevant Coursework:** Data Structures, Algorithms, Database Management Systems, Web Programming, Machine Learning, Object-Oriented Analysis and Design, Computer Architecture, Operating Systems, Computer Networks, Agile Software Development, Software engineering

ACADEMIC PROJECTS

Workmate Web Application ([Github](#)) | Next.js, Socket.io, Redis, Firebase, Docker, ImageMagick, AWS
- Led a team of 5 students to design, develop, test, and deploy a task management tool similar to JIRA following Agile(Scrum)
- Contributed to Full stack development, integrating real-time comments with Socket.io to enhance user engagement
- Improved API response time by 40% by code optimization and using efficient caching techniques e.g. utilizing Redis
- Hosted on AWS and implemented Firebase authentication, cutting hosting costs by 20% compared to traditional solutions

Project Management Application ([Github](#)) | NodeJS, JavaScript, HTML5, CSS, Handlebars, MongoDB, Express
- Created a web application for managing various projects and tasks to improve user experience in NodeJS
- Completed project 30% ahead of schedule by effectively managing team and was primarily responsible for implementing key features
- Developed back-end functionality with NodeJS and MongoDB and frontend with HTML5, CSS, and JavaScript

Quiz Web Application ([Github](#)) | Python, Flask, Jinja, Chart.JS, MongoDB, HTML, CSS, JavaScript
- Built a client-requested, user-friendly Quiz Application for knowledge assessment using Python, Flask and MongoDB
- Engineered diverse user features for effortless quiz selection, various question types, and real-time feedback with a timer, leveraging technologies such as HTML, CSS, JavaScript and Jinja, resulting in a 30% boost in the user experience
- Integrated Chart.js to bolster analytics functionality, thereby elevating the overall learning experience

Biometric Identification System using GAIT Analysis | Python, Numpy, Pandas, OpenCV, TensorFlow
- Researched and executed numerous techniques and methodologies to devise a feasible Biometric Identification System using GAIT Analysis
- Employed techniques such as Background Extraction, feature extraction techniques, auto focusing on subject to compare two images
- Reduced false positive identification by 50% through refining, testing and optimizing the system's algorithms

ChefGPT ([Github](#)) | NodeJS, JavaScript, Express, React, Bootstrap, OpenAI API
- Crafted a web application to analyze kitchen ingredients and generate curated meal options
- Executed full-stack development with Node.js, Express, React, Bootstrap, and integrated OpenAI API

PUBLICATION

Biometric Identification System using GAIT Analysis ([Link](#))   **University of Mumbai | Jun 2020 – Jun 2021**
International Journal of Innovative Science and Research Technology *Volume 6, Issue 4, April – 2021*

CERTIFICATIONS

- Machine learning (Stanford University)
- Machine learning to deep learning (ISRO)
- Python Data Structures (University of Michigan)

ACHIEVEMENTS

- Achieved Coder of the Semester award three times during my bachelor's degree
- Organized and led a successful charity event that raised funds for 10 breast cancer patients