Mayank Maroti

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Experience

BuyerFolio   Jan 2024 – Aug 2024
Full-Stack Developer   *Montreal, CA*

- Optimized Performance: Enhanced web app speed by 25% through front-end development with React and back-end API integration using Python (Flask).
- Improved User Experience: Streamlined application performance by leveraging React and Redux for efficient state management, complemented by Google Cloud Platform (GCP) integration.
- Strengthened Data Integrity: Implemented robust database management practices, ensuring reliability for 1,000+ housing records and minimizing downtime.

University of Ottawa   May 2022 – May 2023
Software Developer   *Ottawa, CA*

- Enhanced Performance: Developed a mobile AR app with Unity 3D (C) and integrated Python for backend data processing, improving responsiveness for large datasets.
- Increased Accuracy: Built a real-time water level rise simulation processing over 100,000 data points using SQL, significantly improving database efficiency.
- Led Engagement: Spearheaded a campus pilot for AR technology, delivering interactive presentations and technical demonstrations to engage research communities.

Live Wire   June 2020 – Apr 2021
Jr.Python Developer   *India*

- Improved Performance: Enhanced the "Automated Procurement Pipeline" functionality by developing with Python and Django, integrating SQL for optimized database operations.
- Ensured Quality: Applied unit testing with PyTest, validated APIs with Postman, and managed issues via Jira while using Git for version control, focusing on software reliability.
- Enhanced Code Quality: Refactored database queries and implemented secure coding practices, consistently meeting project deadlines through effective software engineering.

Projects

Time Machine | *Globe GL, Three.js, React.js, Node.js, MySQL, AWS RDS, AWS EC2*

- Created Interactive Application: Developed a web app with features that enable 1,000+ users to explore and learn history interactively.
- Utilized Advanced Libraries: Leveraged Globe GL and Three.js for dynamic 3D visualizations, enhancing user engagement with historical content.
- Deployed Scalable Infrastructure: Implemented on AWS EC2 with MySQL and AWS RDS, supporting over 5,000 concurrent users efficiently.

Real-time Surveillance and Artificial Intelligence | *TensorFlow, YOLO v3, OpenCV, Python*

- Engineered Surveillance Systems: Developed real-time surveillance systems using TensorFlow, YOLO v3, and OpenCV, achieving 98% accuracy in face mask detection.
- Enforced Safety Protocols: Implemented solutions for social distancing enforcement, enhancing public safety and compliance during critical times.

Skills

Front-end Development: JavaScript, TypeScript, HTML5, CSS, React

Back-end Development: Python, C++, C#, Flask, SQL, PostgreSQL, Node.js

Frameworks & Platforms: Flutter, SaaS, Google Cloud Platform (GCP), AWS, Lambda, Kubernetes, EKS

Tools & Technologies: Git, CI/CD, Docker, Android Studio, Windows, Linux

Testing & Debugging: PyTest, Unit Testing, Postman, Integration Testing, Jira

Education

University of Ottawa   Ottawa, Canada
Master of Engineering − Electrical and Computer Engineering

- **Relevant Coursework:** Engineering Design, Data Structure, Probability & Statistics in Computer Science

SRM Institute of Science and Technology   Chennai, India
Bachelor of Technology − Information Technology

- **Relevant Coursework:** Computer Science, Statistics, Data Structure Algorithms, Python, C++, Software Design