Sudhanshu Makwana

sudhanshumakwana.me

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, SQL, HTML/CSS, Java
Frameworks: React.js, Node.js, Spring, TailwindCSS
Developer Tools: Git, Docker, VS Code, Visual Studio

EXPERIENCE

Research Intern — Dec 2022 – Aug 2023
Samsung R&D Institute — *Bengaluru, India*
- Led a team of 4 students in converting the GSM Test Automation Framework from Tool Command Language (Tcl) to Python, enhancing readability and modernizing the framework
- Refactored and improved several test scripts and core framework components which cut down the codebase size by 25%
- Recognized with a Certificate of Excellence
- *Skills: **Python, Linux, Tool Command Language, Scripting***

Remote Software Developer — Oct 2023 – Nov 2023
Yanolja Co. Ltd. — *Seoul, South Korea*
- Refined a React.js GUI tool by devising and implementing a node naming feature using BFS and cycle detection in React Flow, enhancing the graph's functionality by allowing node names to be auto-suggested from a list of ancestor nodes
- Accelerated feature delivery by collaborating in an agile team, contributing to a 15% improvement in project timelines
- *Skills: **React Flow, React.js, TypeScript, Git***

Remote Data Engineer — Oct 2023 – Dec 2023
Freelance Project via Upwork
- Engineered a high-performance Python/Scrapy web scraping script to efficiently extract product data from bjs.com and samsclub.com for an American client, leveraging REST APIs and bypassing JavaScript rendering. Implemented concurrent requests, enhancing data extraction speed by 300% compared to traditional sequential methods
- Implemented custom CSV/JSON export functionality and integrated with Shopify's API to enable real-time product data uploads to client's e-commerce store during web scraping operations, streamlining product catalog management
- *Skills: **Python, Scrapy, REST APIs, CSV/JSON Data Handling***

Software Developer Intern — Feb 2024 – Present
Dayforce — *Bengaluru, India*
- Completed comprehensive technical training in Java, .NET, TypeScript, React.js, Angular, PL/SQL, and Oracle SQL DB, building a strong foundation in modern web and software development
- Led a team of 10 developers in a capstone project, developing a full-stack course management system using ReactJS/MUI, .NET Core, and Microsoft SQL Server, featuring course browsing, purchasing, and content administration
- Implemented an in-house one-click CAPTCHA solution for the Employee Self-Service (ESS) India product, utilizing Java for backend logic and Rust compiled to WebAssembly for frontend performance
- Collaborated to identify and remediate 160 SQL injection vulnerabilities in the ESS Java codebase, and developed a release note upload/download project for the Operations Excellence team
- *Skills: **React.js, TypeScript, .NET, MS SQL Server, Java, JSP, Oracle SQL DB, Rust, WebAssembly***

PROJECTS

CodeLingo | *React.js, Node.js, TypeScript, TailwindCSS*
- A code explainer tool providing real-time explanations and translations into various local languages. Utilized Monaco code editor for a VSCode-style interface, integrated Amazon Translate for multilingual support and used CodeLlama-34b-Instruct-hf as the LLM
- GitHub Repo: github.com/sudhz/CodeLingo
- Hosted Link: codelingo.netlify.app

ACHIEVEMENTS

3rd Prize in SRM Techno Hackathon 2023
- Worked on a full stack website Dent Active that leverages **YOLOv8**, **OpenCV**, and **Flask** to deliver a robust car damage detection and assessment system
- GitHub Repo: github.com/sudhz/Deep-Object-Damage-Analysis
- Hosted Link: notnormalcoder123.pythonanywhere.com

EDUCATION

SRM Institute of Science and Technology — Chennai, India
B. Tech in Computer Science and Engineering – 8.95 CGPA — *2020 – 2024*