Sahil Patel

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Portfolio: https://sahil-portfolio-ak4m.vercel.app/
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PROFESSIONAL SUMMARY

Sahil Patel is a passionate software developer with a craving for tackling complex problems and honing new technical expertise. His passion for coding from stems from their academic endeavors, particularly in modules like Robotics, where he utilized MATLAB to design workspaces for thumb and index finger motion. He has since continued to evolve his skillset through creation of full stack applications, such as his F1 data graphing and analysis website, and educational programs like the Bright Network Technology Academy Bootcamp. His hunger for a challenge and advancing his abilities will really enable him to excel in dynamic environments and consistently deliver exceptional results.

TECHNICAL SKILLS

Programming: Java, JavaScript, Angular, TypeScript, HTML5, CSS3, SQL, Spring, Spring Boot, JDBC, Jackson, JPA, jQuery, Node, webpack, Babel, Maven, npm, Python, C++ & MATLAB, React, Node.js, Azure Functions
Software: Eclipse, VS Code, Git, GitHub, cmder, pgAdmin
Databases: PostgreSQL, MongoDB

PROFESSIONAL EXPERIENCE

COOK SYSTEMS – Memphis, TN   **04/24 – Present**
FastTrack Developer

Mock Twitter API
- Developed a RESTful API simulating Twitter functionality, utilizing CRUD operations to interact with a PostgreSQL database server, enabling features such as posting tweets.
- Implemented and managed database creation, updating, and relationships based on Entity Relationship Diagrams (ERDs).
- Utilized the Spring Framework, JPA, Hibernate, for object-relational mapping between Java POJOs and DTOs to PostgreSQL.
- Reduced boilerplate code by efficiently coding using libraries such as MapStruct and Lombok.
- Followed a test-driven development (TDD) approach by utilizing Postman and Newman CLI, ensuring robust API functionality.

Environment: Java, Spring Boot, PostgreSQL, PGAdmin, Postman

TrackGuesser
- Developed a song guesser game application utilizing the Spotify API for fetching track-related data, and implemented three distinct game modes as part of a two-person team.
- Designed detailed wireframes on Figma, outlining various components and their layouts in different scenarios, adhering to best practices in UX/UI design to ensure a user-centric experience.
- Developed dynamic and visually captivating web pages using Angular components, directives, and routing, along with TailwindCSS for a responsive design.

Environment: HTML5, CSS, Angular, TailwindCSS, Figma, Git/GitHub

Adminstration and Management App
- Developed a comprehensive full stack application for efficient team, project, and user management, providing tailored views and functionalities for different roles.
- Created several RESTful endpoints utilizing Java (Spring), pgAdmin, and Postman to enable CRUD operations for projects, teams, and users.
- Designed and implemented modals for adding and editing projects using Angular, ensuring seamless integration with different endpoints to update the PostgreSQL database.
- Added robust form validation to ensure all requests were properly formatted, preventing invalid requests, and enhancing user experience through clear error messages.

Environment: Java (Spring), Angular, PostgreSQL, pgAdmin, Figma, Postman, Git, HTML & CSS

Krishna Marriage – London, UK   **10/23 – 01/24**
Volunteer Developer
- Built a testing environment using docker, such as using a MongoDB image as a test database.
- Automated the creation of full stack testing environments through creation of shell scripts (database, app, api)

REPLY – London, UK   **08/23 – 08/23**
Data Science Intern
- Predicted sales trends by employing LightGBM and Facebook Prophet models, utilising AWS Sagemaker Notebook Instance.
- Conducted model selection through carrying out exploratory data analysis using pandas library in Python.
- Designed and implemented a question-answering chatbot tailored for user provided documents, incorporating Langchain framework and understanding the importance of prompt engineering.

ADDITIONAL PROJECTS

Portfolio   *06/24 – 06/24*
- Designed and developed a dynamic portfolio website showcasing my achievements, projects, and skills using JavaScript, HTML, CSS, and jQuery.
- Created visually engaging animations, including an animated background, using pure CSS and JavaScript.
- Implemented a contact form using email.js, allowing users to send inquiries directly to my email.

Environment: HTML, JavaScript, jQuery, CSS
https://sahil-portfolio-ak4m.vercel.app/

F1 Website   *07/22 – 05/23*
- Developed a comprehensive full-stack application utilizing React for the frontend, Node.js for user authentication and Git for version control and continuous development.
- Refactored the backend to leverage Azure Functions for cost savings.
- Obtained Formula 1 data from online API and implemented visually appealing graphs showcasing crucial metrics such as drivers' fastest lap times using chart.js.

Environment: Node.js, Azure Functions, Azure Static Web Apps, MongoDB, Git, HTML5, CSS, JavaScript, React
https://ambitious-pebble-02008e903.2.azurestaticapps.net/

Conversa API   *01/24 – 04/24*

- Collaborated in development of Restful API to mock a chat API
- Created ERDs and Class Diagrams for users, messages and chatrooms tables
- Wrote detailed documentation for API usage instructions and endpoints
- Fulfilled the role of SCRUM master following AGILE workflow for the project.
- Managed project through Trello Kanban board and Gantt Chart for task delegation, issue management and time management.

Environment: Java, Spring, Spring Boot, JPA, Maven, PostgreSQL, Git, Trello

Driver Delivery App   *01/24 – 04/24*

- Ensured efficient vehicle utilization and timely deliveries through creating a full stack application for a packaging company's delivery app for drivers
- Enhanced efficiency for multiple drivers by developing interactive maps for delivery route optimization using Leaflet.js and the GeoApify API, detailing precise waypoints.
- Served as project manager, ensuring adherence to project timelines and effectively managing the software development team.

Environment: Java, PostgreSQL, React, Git, JavaScript, CSS, HTML5 & Material UI.

EDUCATION

Cook Systems FastTrack Java Program – Memphis, TN   **04/24 – 06/24**
Concentrated Java Frameworks and developer tools training

Bright Network Technology Academy Bootcamp – London, UK   **01/24 – 04/24**
Full stack development using Java, PostgreSQL, and React.

University of Bristol – Bristol, UK   **09/18 – 07/22**
MEng – Mechanical and Electrical Engineering

CERTIFICATIONS

AWS Cloud Practitioner Foundational   **11/23 – 12/23**
Foundational knowledge of AWS cloud computing & services