Sagar H Patel

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EDUCATION

Bachelor's degree in computer science | Queens College (CUNY) | Flushing, NY   May 2023
Coursework: Discrete Structures, Object-Oriented Programming in C++ and Java, Assembly Language, Data
Structures & Algorithms, Theory of Computation, Software Engineering, Operating Systems, Memory
Management, Algorithmic Machine Learning, Genetic Algorithms, Technical Operations

TECHNICAL SKILLS

Development: HTML5, CSS, JavaScript, RESTful API, Python, SQL, Java, C++
Databases: MySQL, MS SQL
Visualization Tools: Microsoft Excel, Google Sheets
Libraries & Frameworks: Bootstrap, jQuery, ReactJS, AngularJS, NodeJS using Express, Pandas, NumPy, Matplotlib,
Scikit-learn, GitHub, Lucid chart
Additional Skills: API Integration, Database Management, Node.js

EXPERIENCE

Single Page Application, Queens College | Flushing, NY   April 2023

- Designed and developed a responsive web application for an online store using HTML, CSS, JavaScript
  (**ReactJS and Bootstrap**).
- Implemented **RESTful API** integration to facilitate smooth communication between the frontend and
  backend.
- Created and maintained comprehensive documentation including requirements, design specifications,
  and user manuals.
- Collaborated in a team of 2, following **Agile** methodology to deploy a working prototype each week.
  Ensured efficient workflow and conducted thorough code testing for bug identification and resolution.
- Worked closely with the team and external stakeholders to generate innovative ideas and develop a
  user-friendly design.

Flight Booking Application, Queens College | Flushing, NY   November 2022

- Developed a functional application using **IntelliJ** that enables users to select seats and associated add-
  ons, with data stored in **MySQL**.
- Collaborated with a team of 4 members, employing Agile methodologies and emphasizing frequent
  documentation.
- Utilized Object-Oriented Principles to provide users with a variety of seat selection options.
- Conducted detailed analysis using **Lucidchart** to create **UML diagrams**.
- Optimized existing code for improved efficiency, performed unit testing and functional testing on the
  updated codebase.

Compiler Development, Queens College | Flushing, NY   March 2022

- Collaborated with a partner to design and implement a fully functional compiler in **CLion**.
- Automated the process of tokenizing and identifying keywords from input documents.
- Demonstrated adherence to software development principles such as **DRY** (Don't Repeat Yourself) and
  KISS (Keep It Simple, Stupid).

- Worked closely with team members to implement code changes while ensuring the overall codebase remained bug-free.

Technical Operations, Queens College | Flushing, NY   January 2022

- Led a team of 5 members simulating an Infrastructure team, collaborating closely with the DBA team.
- Acted as a Scrum Master and Change Coordinator, showcasing strong skills in team management and coordination.
- Presented changes to the product owner and stakeholders, ensuring clear communication and understanding.
- Maintained workplace integrity and motivated the team to achieve optimal work efficiency.
- Communicated effectively with the QA team to address any issues related to updates or deployments.
- Developed comprehensive scopes of work for successful project deployments.

PERSONAL PROJECTS

Website Design | HTML, CSS, RESTful API, JavaScript, ReactJS, Bootstrap   May 2023
- Designed and developed an interactive website with seamless transitions for enhanced user experience and resource efficiency.
- Utilized Bootstrap and jQuery libraries to create a professional and visually appealing interface.
- Employed responsive design techniques, ensuring compatibility across various devices and screen sizes.
- Integrated RESTful APIs to facilitate smooth communication with the backend, enhancing functionality and performance.

Single Page Application | HTML, CSS, JavaScript, RESTful API, Node.js, Express.js, MySQL, Queries   April 2023

- Collaborated with a partner to develop optimized SQL queries that fetch data based on user-selected requests from the database.
- Implemented custom queries and resolved connection issues, leveraging MySQL and database management skills.
- Conducted extensive testing to ensure accuracy and reliability of query results.
- Demonstrated proficiency in working with third-party APIs, including reviewing and utilizing their documentation effectively.

CERTIFICATIONS & AWARDS

- Web Development (University of Michigan)
- Responsive Design (University of Michigan)
- Python Programming (Google)
- Front-end Development (Meta)
- C# Programming (University of Colorado)