Badal Patel

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Summary

Dedicated and with three years of experienced in Software Developer with expertise in programming and software development across multiple layers of the software stack.

Education

The University of Texas at Arlington   May 2024
- Master of Science in Computer Science*:*   **GPA: 3.65/4.00**

Gujarat Technological University, Gujarat, India   May 2021
- Bachelor of Engineering in Computer Science and Engineering: **GPA: 3.73/4.00**

Technical Skills

- **Languages:** Python, C, C++, C#, Java, JavaScript, NodeJS, HTML, CSS, React, TypeScript, Ruby
- **Technologies:** NodeJS, jQuery, Flask, TensorFlow, Bootstrap, XML, JSON, Firebase, PostgreSQL, MongoDB, PHP, SQL, Oracle, AWS, Azure, Git, GitLab, Android JAVA, Linux, Figma
- **Framework:** React.js, Express.js, Angular.js, Vue.js, Django, ASP.NET, Laravel, Blazor
- **Software:** Visual Studio, Postman, Git, Kubernetes, Cisco Packet Tracer, PowerBI, COMPOSER, Slack

Experience

Tera Innovators, Ahmedabad, Gujarat, India   **August 2019 - September 2020**
Software Developer
- Engineered real-time communication capabilities through **WebSocket** and advanced **Python libraries**, increasing user engagement by 50%.
- Designed and executed responsive UIs using **JavaScript**, **HTML**, **CSS**, **Bootstrap** and **C#**, enhancing user satisfaction.
- Developed **Flask-based RESTful APIs** and integrated with **MySQL** for seamless data management and exchange between systems.
- Diagnosed and resolved 50+ complex software issues, improving system performance by 40% and increasing user satisfaction by 25%.

Indian Institute of Hardware Technology, Navsari, Gujarat, India   **October 2020 – July 2022**
Software Developer
- Led cross-functional teams to implement new features with **AngularJS** and Bootstrap, boosting user engagement by 15%.
- Contributed to **agile methodologies**, enhancing team productivity by 15% with **Node.js**, **Express**, **MongoDB** and **C#**.
- Created responsive user interfaces using **HTML**, **CSS**, **React** and **Python**, enhancing user experience.
- Analyzed **testing strategies**, reducing post-release defects by 30% and improving app stability by 20%.
- Conducted in-depth workshops with 15+ stakeholders to assess project requirements and prioritize 25 key features, resulting in a roadmap that aligned with business objectives and increased stakeholder satisfaction by 40%.

Projects

Real Time Communication Tools | C#, Blazor, TypeScript, AWS, PostgreSQL, WebSocket, Socket.io
- Implemented a responsive UI using **Blazor** and **C#** with **TypeScript**.
- Integrated **AWS** services such as **EC2, S3**, and **Lambda** for scalable cloud infrastructure.
- Used **PostgreSQL** and **RESTful APIs** for efficient data management and communication.
- Make a Chatbot function using **WebSocket** and **Socket.io**, improving real-time communication and achieving 15% faster response times.

Car Rental Company | Python, MongoDB, React.js, AngularJS, Vue.js, Node.js, Express.js, HTML, CSS
- Executed a complete vehicle rental data set framework utilizing **Python** and **MongoDB**, which manage client data, vehicle inventory and transaction.
- With a responsive web application using **HTML**, **CSS** and modern frameworks such as **React.js**, **AngularJS**, and **Vue.js** improving load times by 30%.
- Designed RESTful APIs using **Node.js** and **Express.js** for seamless communication between the front-end and back-end.
- Implemented **MongoDB** for **15% reduction** in data-related errors. Deployed on **UTA Cloud**, reducing page load times by 20% and accommodating a 30% increase in concurrent users.

E-Commerce Platform | React.js, HTML, CSS, JavaScript, PHP, MySQL, AWS
- Created a responsive and cross-device compatible web application utilizing **React.js**, **JavaScript**, HTML, CSS, and **PHP**.
- **Deployed** applications on **cloud** platforms using **AWS** leveraging services.
- By integrating three third-party services with **SOAP APIs**, data transfer failures were decreased by 40%.

Customer Feedback Dashboard | .NET, React, PHP, SQL
- Developed a real-time feedback dashboard with **.NET** (C#) and **React,** featuring interactive data visualizations.
- Engineered a robust database management system using **PHP** and **SQL**, improving data retrieval processes by 40% and ensuring compliance with data integrity protocols, enhancing overall system reliability and performance.