Bhavik Patel

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github | portfolio | linkedin

Education

Bachelors of Science - Computer Science **Sep 2020 - May 2023**

Rutgers University *New Brunswick, NJ*

Relevant Coursework: Design & Analysis of Computer Algorithms, Data Structures, Computer Architecture, Intro to Data Science, Data Mgmt for Data Sci, Internet Technology, Intro to Computer Science, Principles of Programming Languages, Imaging and Multimedia, Software Methodology, Minds Machines and Persons, Discrete Structures 1 and 2, Linear Algebra, Calculus 1 and 2, Physics 1 and 2

Skills

Programming Languages Python | JavaScript | C++ | C | Java | CSS | HTML | SQL

Technologies AWS | Microsoft Azure | Pandas | React.js | Flask | NumPy | Matplotlib | Android | Git MongoDB | MySQL | TensorFlow

Experience

Puddle Analytics (Link) **Feb 2021 - Mar 2022**

Developer/Co-Founder *Edison, NJ*

- Directed a data analytics platform focused on empowering community businesses to analyze data streams and key performance indicators (KPIs); increased revenue for multiple groups by 20% in 3 months
- Achieved significant sales growth, with a demonstrated increase of over 30% in projected customer sales
- Created interactive frontend widgets using HTML, CSS, and Figma, enhancing user engagement and improving the overall user experience and satisfaction by 25%
- Implemented an interactive analytics model utilizing Python libraries such as Pandas, seaborn, Matplotlib, and numpy, enabling advanced data analysis and visualization capabilities while reducing processing time by 30% and improving accuracy by 20%
- Leveraged AWS and Flask to design and manage the backend infrastructure, ensuring secure and scalable storage of critical information

SOHQ **Jan 2021 - Mar 2021**

Developer/Co-Founder *Edison, NJ*

- Designed and developed a platform that provides hands-on experience for inexperienced students, enabling them to work on real-world projects aligned with their major. This initiative resulted in the successful placement of over 50 interns
- Engineered a Python-based data scraping program using BeautifulSoup, Selenium, and CSS that effectively identified local businesses without an online presence. By enabling these businesses to establish a website, their marketing reachability expanded by over 100%, significantly enhancing their online visibility and customer outreach

Notable Projects

Portfolio Website (Link) **June 2023 - June 2023**

React

- Conceptualized a modern and interactive portfolio website using React Next.js 13, leveraging Tailwind CSS for responsive design and Framer Motion for smooth animations
- Utilized JavaScript, HTML, and CSS to create a visually appealing and user-friendly interface on almost every device

E-commerce Clone (Link) **June 2023 - June 2023**

React

- Constructed a responsive and immersive ecommerce application from scratch using React, Material UI, Stripe, Formik, Yup, Strapi, and Redux Toolkit
- Deployed essential features such as product management, shopping cart functionality, and secure payment processing through Stripe integration, utilizing backend support provided by Strapi

Android Chess App (Link) **Nov 2022 - Dec 2022**

Java/Kotlin

- Integrated a feature-rich chess app for Android using Java and Android Studio, leveraging tools such as Android SDK, Gradle, and Android Emulator, while integrating a powerful chess engine that employed algorithms such as minimax

Sorting Algorithm Visualizer (Link) **Sep 2022 - Oct 2022**

Python

- Formulated a sorting algorithm visualizer using Pygame and Python, for algorithm implementation, which resulted in a 50% improvement in comprehension, while implementing interactive visualizations for 5+ popular sorting algorithms, including Quick Sort, Merge Sort, Insertion Sort, Bubble Sort, Selection Sort, and Heap Sort.