

BHAUTIK PATEL

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PROFILE SUMMARY

Master's student in Applied Computing with expertise in Python, JavaScript, data structures, and data analytics. Skilled in software design and development, problem-solving, and collaboration within cross-functional teams. Strong interpersonal and communication skills developed through leadership in academic projects.

SKILLS

- **Programming Languages:** JavaScript, TypeScript, Java, Python, C, R, SQL, HTML, PHP, CSS
- **Frameworks:** React.js, Node.js, Express.js, Vue.js, Django, jQuery, Bootstrap, Tailwind CSS
- **Database Systems:** MySQL, MongoDB, Oracle, Microsoft SQL Server
- **APIs:** RESTful API development, GraphQL
- **Tools & Technologies:** Git, GitHub, Power BI, Tableau, Selenium, JIRA, Postman, Docker, AWS, Slack
- **Methodologies:** Agile Development, Scrum, Design Thinking

EDUCATION

- **Master in Applied Computing** May 2024 - Present
University of Windsor | Windsor, ON | GPA: 86/100
- **Bachelor of Computer Engineering** Jul 2019 - Jun 2023
HGCE - Gujarat Technological University | Ahmedabad, India | GPA: 8.85/10

EXPERIENCE

- **Software Developer Intern** Jan 2023 - Jun 2023
Stallion Infotech PVT | Ahmedabad, India
Tech: HTML, CSS, JavaScript, MongoDB, React.js, Bootstrap, Git, GitHub, Visual Studio Code, Slack
 - Collaborated with clients to gather requirements for reports, ensuring alignment with business objectives and delivering tailored solutions by following SDLC process and Agile principles
 - Worked with team members to create and design multiple websites, receiving appreciation from clients and colleagues
 - Enhanced user experience by refining UI components, improving navigation flow, and ensuring accessibility across devices
 - Developed and tested RESTful APIs in Postman, resolving 85% of post-production issues through early-stage debugging
 - Wrote and optimized SQL and MongoDB queries, enhancing database performance and reducing query execution time by streamlining indexing and data retrieval.
 - Optimized web applications for improved speed and scalability, reducing page load times by 30%
 - Utilized Git for version control, managing code repositories and coordinating with the team to ensure smooth collaboration and integration of code changes
 - Explored Continuous Integration/Continuous Deployment (CI/CD) practices, gaining basic exposure to automated testing and deployment pipelines

PROJECTS

- **MetaPool: Optimizing Dataset Discovery with Metadata Integration** | [Code Files](#)
Tech: Java, Python, Selenium, React.js, MongoDB, Tableau
 - Constructed a scalable dataset discovery system by collecting, standardizing, and merging metadata from 5,600+ datasets across repositories into a structured research-standard schema
 - Built a React-based web application with a Node.js backend and RESTful APIs, enabling efficient dataset search, filtering, and retrieval from MongoDB
 - Automated metadata extraction through web scraping and API integration, significantly improving data retrieval efficiency and reducing dataset discovery time for researchers
 - Integrated a Tableau-powered analytics dashboard, providing interactive data visualization and insights to enhance dataset exploration
 - Enhanced system scalability, ensuring seamless integration of new datasets while maintaining high performance and responsiveness

• Food Price Analysis System

Tech: Java, Selenium, React.js, JavaScript, MySQL, Advanced Java (JSP)

- Engineered a robust Food Price Analysis system to aggregate and compare food deals from four different grocery stores, utilizing Java, Selenium, and React.js
- Developed and deployed a dynamic web crawler using Selenium, automating the extraction of key product data across multiple grocery websites, which enhanced decision-making for users
- Crafted a responsive front-end interface with React.js, applying MVC principles to ensure seamless user interaction and intuitive navigation
- Implemented advanced data structures, including Cuckoo Hash Table and AVL Tree, to optimize spell checking and search frequency, improving the system's overall efficiency
- Integrated algorithms such as Edit Distance and Boyer-Moore String Matching to boost spell-check accuracy and enhance the user experience through better page ranking

• MiniShell

Tech: C, System Calls, UNIX

- Programmed a mini-bash utility command which mimics the Bourne-Again Shell (BASH) and adds to its functionality with various custom commands to do tasks easily
- Extended the program's capacity to run bash scripts and conducted extensive automated testing and debugging to deliver a reliable bash with minimal bugs and high stability

• Valorant Game Analytics Application

Tech: Android Mobile Application Development, Java, API Integration, Data Analysis Algorithms

- Worked with a team to develop a mobile application for personalized gameplay analytics, utilizing Java
- Integrated official Valorant APIs for real-time data collection and analysis, applying data analysis algorithms
- Demonstrated research skills by optimizing algorithms for personalized insights, enhancing user experience
- Applied design thinking in prototyping and development, contributing to innovative mobile app features

CERTIFICATIONS

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|--------------------------------------------------------------------------------|----------|
| • Introduction to Spark SQL and DataFrames – LinkedIn Learning | Sep 2024 |
| • Learning Hadoop - LinkedIn Learning | Nov 2024 |
| • Unix Essential Training - LinkedIn Learning | Sep 2024 |
| • Selenium Essential Training - LinkedIn Learning | May 2024 |
| • Java Programming: Solving Problems with Software - Duke University, Coursera | Jan 2021 |