Shruti Bhanushali

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Personal Statement

A driven second-year BSc Computer Science student at the University of Wolverhampton. Proficient in Python, Java, and web development. Experienced in diverse roles, from a Checkout Operator to a Teaching Assistant and a Tutor, with a strong commitment to education and excellent interpersonal and organizational skills.

Education

University of Wolverhampton, Wolverhampton, UK, September 2022 – 2026

BSc (Hons) Computer Science Expected First Class Honors

- Modules of interest and Soft Skills Acquired
  - *Programming* **- Problem-solving**
    - Implemented Caesar Cipher encryption/decryption for secure text communication.
    - Programmed Tic-Tac-Toe with AI opponent and winner determination.
  - *Internet Software Architecture* **- Adaptability and Reflective Thinking**
    - Developed Weather Forecast app prototypes with live data retrieval, server-side caching using PHP and MySQL in prototype 2, and browser caching with localStorage in prototype 3. Included UML Deployment Diagrams and reflective reports for each version, emphasizing strengths and weaknesses of the evolving architecture.
  - *Games Technology* **- Creativity and User Experience (UX) Design**
    - Designed an educational Unity app for solar simulation, leveraging game technology for serious applications in learning.
  - *Object-Oriented Programming* **- Logical Thinking, Unit Testing and Documentation**
    - Designed Java banking system with Swing GUI for user transactions.
    - Developed a modified Trivial Pursuit game in Java, testing OOP principles, file handling, and unit testing. Implemented classes for reading, writing, deleting questions, game functions, game setup, and main. Created GUI with options to add and play questions. Incorporated a high score table and MySQL integration, ensuring modular design and testing.
  - *Data Analysis.* **- Analytical Thinking, Data Visualisation and Attention to Detail**
    - Developed regression models using Linear Regression Model, Random Forest Regressor, and Neural Networks for House prices (R^2: 82.14%).
    - Applied classification algorithms (Decision Tree Classifier, Logistic Regression, NN), demonstrating proficiency in machine learning techniques for stellar classification and attained an accuracy of 96.96%.
  - *Human-Computer Interaction* **- User-Centric Mindset and Iterative Design Thinking**
    - Developed mock e-commerce site using HTML, CSS, and JS, showcasing product handling, and checkout process proficiency. Conducted heuristic evaluation, detailing design choices, usability tests, and improvements based on results.
  - *Distributed and Cloud Systems Programming* **- Time Management and Attention to Security**
    - Developed cloud vs. traditional systems report, AWS e-commerce site, Akka actor simulation, and Google Firestore web app.
  - *Collaborative Development* **- Teamwork, Effective Communication, Conflict Resolution, Client Communication and Advanced presentation skills**
    Role: Software Developer and Business Analyst
    - Spearheaded the development of a Minimum Viable Product (MVP) for an innovative healthcare app and created a user-friendly Mobile Medical Platform (MMP), emphasizing features crucial for patient-caregiver interaction. Implemented elderly-friendly design choices, catering to a diverse and less IT-literate audience. Contributed to Weekly Meetings.

St. John International School, Maharashtra, India, April 2018– July 2022
Qualification: General Secondary Education

- A-levels or equivalent: English, Mathematics, Physics, Chemistry, Biology – 80%; Equivalent to A in A-Levels.
- GCSE or equivalent: Higher Mathematics, English, Social Sciences, Science, Information technology, and Marathi – 91.2%; Equivalent to A* in GCSE

Work Experience

Amethyst Academies, Wolverhampton, UK, September 2023 – Present
Teaching Assistant

- Assisted in grading assignments and provided academic support, showcasing strong teamwork.

- Worked with special education students, displaying adaptability and empathy.
- Implemented Individualized Education Plans (IEPs), highlighting a focus on individualized learning.

Heroes Centre Limited, Walsall, UK, November 2022 – Present
KS3, GCSE and A-Levels Mathematics and Science Tutor
- Employed educational apps and interactive whiteboards to enhance teaching methods, highlighting technology proficiency.
- Kept up to date with evolving teaching techniques and technology, emphasizing continuous professional development.
- Regularly assessed student progress and adapted lessons to individual needs, showcasing dedication to personalized education.

Now Education, Wolverhampton, UK, January 2023 – September 2023
Teaching Assistant
- Assisted the teacher in delivering lessons by preparing materials, setting up equipment, and ensuring a conducive learning environment.
- One-to-one with SEN pupils lead in documentation and monitoring of each child.
- Supported individual support to students who needed extra help, such as explaining concepts, answering questions, and offering guidance with assignments.
- Conducted sessions with one-to-three groups.

BrrGrr CO Ltd, Wolverhampton, UK, March 2023 – May 2023
Store Cashier
- Efficiently managed front-of-house operations at a fast-food restaurant, handling orders through the till, kiosk, and online platforms. Excellent Communication Skills and Customer service skills.
- Proficiently coordinated deliveries, showcasing multitasking and customer service skills in a fast-paced environment.
- Generated daily reports summarizing online and in-store business metrics, including order volumes and delivery statistics using in-house drivers and third-party platforms like Stuart.

Specific Skills

- Native speaker of English, Gujarati, Marathi and Hindi.
- Proficient in Python, Java, HTML, CSS, JavaScript, C, C# and C++ showcasing strong programming and web development skills.
- Demonstrate strong proficiency in machine learning techniques and algorithms.
- Possess proficiency in physics and Mathematics.
- Experienced in database management with SQL, ensuring efficient data handling and retrieval and MS Excel(Pivot Tables) and Power Bi.
- House Captain and Awarded for Leadership Qualities

Activities

Professional Mentoring Scheme (2020 – Present)
- Mentored by an external professional**.**
- Engaged in regular one-on-one sessions, focusing on skills development, career growth, and networking opportunities**.**

University of Wolverhampton MainFrame Society(2023- Present)

Certifications

- **Level 3 Diploma in Teaching Assistant (Distinction) March 2023-March 2023**
  Modules of Interest- TA, SEN, Autism, ADHD and Dyslexia
  CPD Registered.

References

Available on request.