Abhishek Shah

My Portfolio Link | +1–(330)–978–8465 | abhi.shah6336@gmail.com | LinkedIn

Objective

Dynamic Full Stack Developer with a strong foundation in software engineering, web development, and cloud integration. Skilled in agile development, CI/CD practices, and data-driven solutions. Experienced in managing end-to-end software development lifecycle, delivering high-quality products that meet business goals.

Technical and Software Skills

- **Programming Languages:** Python, R, C++, C#, Java, PHP
- **Full Stack Development:**
  - **Frontend:** HTML, CSS, JavaScript, React, jQuery
  - **Backend:** Node.js, PHP, CodeIgniter, FastAPI, Rasa
  - **Frameworks:** Express.js, Django, Laravel, CodeIgniter, Rasa
- **Data Analysis & Visualization:** Pandas, NumPy, SciPy, Matplotlib, Tableau, PowerBI, ggplot
- **Databases & Cloud Technologies:**
  - **Databases:** MySQL, PostgreSQL, MongoDB, SQL
  - **Cloud:** Amazon Web Services (AWS), Microsoft Azure
  - **eCommerce:** OpenCart (OC), BigCommerce (BC), Shopify
- **Tools & Frameworks:** Git, Linux, Unity 3D, Adobe, Jest (Unit Testing), Selenium
- **APIs & Integrations:** RESTful APIs, GraphQL, AWS API Gateway, OC, BC, Shopify
- **DevOps & Software Development:** Docker, GitLab CI, Agile (Scrum, Kanban), Waterfall
- **Machine Learning & Computer Vision:** Keras, TensorFlow, MobileNet, OpenCV, PyTorch, LightGBM
- **SEO & UI/UX Design:** SEO Optimization Tools, Cross-browser compatibility

Organizational Experience

Software Engineer / Web Developer – Trumbull Industries – Warren, OH   **2023 – Present**

Full Stack Developer – Trumbull Industries – Warren, OH Present

- **Project & Team Leadership:** Managed a team of 4 overseas developers to achieve 95% on-time sprint delivery across 10+ projects; implemented Agile practices, boosting productivity by 30% and cut scope changes by 25%.
- **Full-Stack Web & E-commerce Development:** Built responsive UIs (HTML5, CSS3, JavaScript, jQuery) and scalable backends (PHP/CodeIgniter) handling 1 M+ monthly requests; streamlined BigCommerce API integration for 35 % faster data sync and optimized MySQL schemas/queries to reduce execution time by 20 %.
- **SEO & Performance Optimization:** Applied structured-data and PHP-driven SEO improvements to lift organic traffic by 45 % and achieve a 90+ PageSpeed score, reducing bounce rates by 30 %.
- **Data Analytics & Cloud Automation:** Developed Tableau dashboards for real-time insights (50 % faster reporting) and automated AWS deployments (EC2, Lambda, API Gateway) to cut release time by 40 %.
- **Conversational AI & Shipping-Rate Automation:** Deployed a Rasa-based chatbot with Python backend and BigCommerce webhooks—deflecting 60 % of support tickets and reducing response times from 4 hrs to under 5 min—and built a LightGBM model (Pandas, Airflow) to predict shipping rates (+25 % accuracy), currently containerizing it in FastAPI on AWS for real-time quotes.

Web Development Intern – Snapbrillia, Inc. – San Francisco, CA   **April 2022 – September 2022**

- As a self-starter, effectively collaborated with a global team in an agile-based environment and actively participated in daily scrum meetings to report progress on assigned tasks.
- Showcased proficiency in collaborating with the design team to develop JavaScript, HTML, and CSS components for the b2c website and implemented them with logic utilizing the React JS framework, resulting in a seamless and efficient user experience.
- Effectively detected and resolved bugs across the b2b/b2c website, while managing wait time to ensure a smooth user experience.
- Followed a structured software development life cycle (SDLC) approach, incorporating continuous integration/continuous delivery (CI/CD) practices, leading to an efficient and effective software development process.
- Ensured code compliance with quality requirements by conducting comprehensive unit testing using Jest, achieving a 100% success rate, and resolving all reported bugs within an average of 24 hours to maintain an exceptional user experience.

Graduate Research Assistant – Youngstown State University – Youngstown, Ohi   **January 2021 – December 2022**

- Developed an ethically grounded driving-simulation platform that integrates eye-tracking technology with AI-powered traffic modeling to recreate complex scenarios, showcasing advanced software engineering skills and a commitment to responsible research.
- Won first place in the University of Queensland's Three-Minute Research Thesis competition by presenting cutting-edge research on ethical dilemmas in driving simulations, showcasing strong communication and presentation skills.
- Utilized waterfall methodology to manage SDLC, gaining hands-on experience in ethical research and software development.

Education

Youngstown State University (YSU), Graduate School   **Youngstown, OH**
- *Master of Science* in Computing and Information Systems, **GPA**: 4.00/4.00   December 2022
- *Data Analytics Certification*   May 2022

Youngstown State University (YSU), College of STEM   **Youngstown, OH**
- *Bachelor of Science* in Computer Science   December 2020
- **Minor**: Mathematics   **GPA**: 3.85/4.00

Research & Thesis

Youngstown State University – Youngstown, Ohio   **January 2021 – December 2022**

Drivers' Visual Focus Areas on Complex Road Networks in Strategic Circumstances: An Experimental Analysis (ADAS)

- Developed scalable and customizable stochastic simulation software to create realistic driving experiences, while analyzing the visual focus of over 20 drivers.
- Utilized C# Job System and Burst Compiler to distribute processing across CPU cores in Artificial Intelligence (AI) Traffic Controller script, resulting in 30% faster simulation times.
- Utilized statistical analysis to gather synthetic data on human gaze patterns to simulate sight perception for neural network training, resulting in an accuracy of 90% on real-world data.

Youngstown State University – Youngstown, Ohio   **August 2020 – December 2020**

Imputation of Missing Values in Time Series Dataset

- Performed data pre-processing and data engineering techniques, such as data cleaning, feature scaling, and normalization, to prepare the time series dataset for analysis.
- Applied 12 different machine learning (ML) algorithms using Python, showcasing proficiency in the field.
- Successfully imputed missing data in 7 scenarios, resulting in a reduction of up to 30% in the root mean squared error (RMSE), highlighting the ability to analyze and recover valuable information in raw datasets.
- Used data visualization tools, such as Matplotlib and ggplot, to explore and visualize the dataset, and gain insights into the patterns of missing data.

Training and Certifications

Data Analytics (YSU), Cybersecurity Certification (CISCO), Database Offerings, Hadoop Fundamentals, ElastiCache Service Primer, Quantum Ledger Database Service Primer, Neptune Service Primer, Redshift Service Primer (AWS), Building Data Lakes on AWS, Fundamentals of Agile Project Management & Predictive Project Management.

Publication

Shah, A. (2022). *Drivers' Visual Focus Areas on Complex Road Networks in Strategic Circumstances: An Experimental Analysis* [Master's thesis, Youngstown State University]. OhioLINK Electronic Theses and Dissertations Center. http://rave.ohiolink.edu/etdc/view?acc_num=ysu1670861339531086

Projects

Face Mask Detection:
- Built a real-time mask detector (Keras, TensorFlow, MobileNet, OpenCV) achieving 95%+ accuracy.

Future Sales Prediction:
- Led a team to top-Kaggle performance on time-series sales forecasting using Gradient Boosting.
- Employed feature engineering and hyperparameter tuning for optimal accuracy.

Collaborative Filtering for Movie Recommendations:
- Developed a user-based recommendation engine using Tanimoto, Pearson, and Euclidean similarity metrics.

Machine Learning Classification using Python:
- Achieved 97.78% accuracy on Iris and 95.91% on Breast Cancer datasets using Decision Trees, Random Forest, and Naive Bayes.