Mahima Shah

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Summary

Experienced software developer with a strong background in full-stack development, specializing in Python, Java and JavaScript. Proficient in designing and implementing scalable and efficient solutions, utilizing Agile methodologies. Skilled in collaborating with cross-functional teams, managing project lifecycles, and delivering high-quality software products within deadlines.

Education

- **Pennsylvania State University** — Harrisburg, PA
  Master of Science in Computer Science — *Aug 2021 – May 2023*
  Courses: *Machine Learning, Artificial Intelligence, Distributed Systems, Numerical Analysis, Advance Algorithm and design*
- **Gujarat Technological University** — Gujarat, India
  Bachelor of Engineering in Computer Engineering — *Aug. 2016 – Aug. 2020*
  Courses: *Operating System, Data Structure, Object-oriented Programming, Data Mining, Information and network security*

Programming Skills

- **Language** C, C++, JAVA, C#, Python, HTML, CSS, JavaScript, NodeJS
- **Libraries & Frameworks** TensorFlow, Keras, scikit-learn, NumPy, Matplotlib, Pandas, OpenCV, NLTK, PyTorch
- **Databases** MySQL, NoSQL
- **Development Environment** Eclipse, Visual Studio Code, Github, Linux, Git, Unity, AWS

Experience

- **Teaching Assistantship** — Sept 2021 – May 2023
  Penn State University — *Harrisburg, PA*
  - Delivered a range of teaching and assessment activities including tutorials directed towards the delivery of subjects at the undergraduate level. Supported faculty research projects. Involved in the development of new materials for department courses. Participated in the assessment process using a variety of methods and provided effective, timely, and appropriate feedback to students to support their learning.
- **Software Developer Intern** — May 2022 – Aug 2022
  Cathode Mobility Pvt Ltd — *Delhi, India*
  - Developed a website for a client company specializing in stock prediction and investment portfolio management. Leveraged Python, React, and Django to deliver a robust and user-friendly platform.
  - Created a dashboard that visually represented key business metrics in real-time, allowing for quick and informed decision-making by management. Successfully integrated the Monte Carlo algorithm into the website's backend, resulting in a notable 23% return on investment for our client.
- **Software Developer** — June 2020 – June 2021
  Friendly IT Solutions — *Vadodara, India*
  - Designed and developed Java J2EE applications to enable the creation and sending of E-card templates across different categories, ensuring compatibility with all web browsers throughout the software development lifecycle. Utilized NoSQL databases for efficient storage and retrieval of E-card data.
  - Understood the functional specifications requirement and designed creative solutions to the business requirements of the client. Developed an interactive front-end using HTML, CSS and JavaScript.
  - Created a RESTful API to facilitate seamless integration with external applications, enabling efficient data exchange and collaboration. Successfully managed project schedule and delivery using Agile software development methodology.

Projects

- **Diabetic Retinopathy Detection (Python, TensorFlow, Pandas, Scikit-learn, NumPy, Matplotlib)** Designed a graph-based learning model that classifies the fundus images into different levels of severity of Diabetic retinopathy. Compared the performance against various traditional methods of image classification such as CNNs and SVMs. The model outperforms the conventional methods with an accuracy of 92%.
- **Startup Seed (C#, HTML, CSS, Bootstrap)** Built an application that collaborated entrepreneurs and investors on one platform, following the widely adopted Model-View-Controller (MVC) development pattern. Implemented the front end using HTML5, CSS3, and JavaScript, with jQuery for front-end validation. Leveraged C#.Net for the back-end/controller and stored project data in a Microsoft SQL Server Database.
- **Keyboard Anywhere (Python, Raspberry Pi)** Developed a model that can replace a physical keyboard with a virtual one just by using a miniature device such that any flat surface could act as a keyboard that can be used with monitors, laptops, mobile phones, and tablets.
- **Multi-Client Chat Room (JAVA)** Developed a multi-client chat application in Java, enabling concurrent communication among multiple clients using TCP packets. Utilized socket programming and multi-threading to facilitate seamless messaging and efficient handling of client connections. Implemented robust error handling and intuitive user interfaces to enhance the overall chat experience.

Certifications

- **AWS Cloud Practitioner**