Om Shewale

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SUMMARY

Versatile Software Developer with experience spanning from AI/ML projects to full-stack web development. Proven ability to quickly learn and adapt to new technologies, as demonstrated by experience with Python, TensorFlow, React, and Swift. Strong problem- solving skills and a collaborative mindset, with a focus on delivering efficient and effective software solutions.

PROFESSIONAL EXPERIENCE

Deposit Specialist | UNC Finance And Operations, NC   Oct 2024 – Present

- **Process, reconcile, and manage** approximately $3 billion in weekly student payments and departmental deposits, ensuring accuracy and compliance with university financial policies.
- **Streamlined deposit processing workflows**, achieving a 35% increase in efficiency and a 20% boost in office productivity.
- **Leveraged Excel and business tools** to analyze data, identify process bottlenecks, and implement solutions for improved performance.

Lead Software Developer | UNC Eshelman School of Pharmacy, NC   Oct 2024 – Jan 2025

- **Architected and developed** a web-based 2D escape room game using Flutter, funded by the PharmAlliance Early Career Researcher Award, enhancing clinical education through interactive problem-solving.
- **Directed a development team** to implement core game functionalities, ensuring a seamless and engaging user experience.

Software Engineering Tutor | Arizona State University, AZ   Aug 2021 – May 2024

- **Instructed and mentored** over 1500 students in Data Structures and Algorithms, utilizing practical examples to solidify understanding and drive academic success.
- **Guided 100+ students** through complex coding and software engineering projects, fostering problem-solving skills and practical application of theoretical knowledge.
- **Collaborated to enhance educational services**, applying teamwork and communication skills directly relevant to software development environments.

Teaching Assistant | Arizona State University, AZ   Aug 2022 – May 2024

- **Communicated and presented** complex calculus concepts to engineering students, facilitating comprehension and application.
- **Supported student learning** by providing targeted assistance and clarifying fundamental calculus principles.
- **Evaluated student performance** through detailed grading and constructive feedback, refining analytical and assessment skills.

TECHNICAL SKILLS

- **Languages:** Python, C++, Swift, C, HTML, JavaScript, CSS, Java, Dart, C#, TypeScript
- **Frameworks and Libraries:** TensorFlow, PyTorch, SwiftUI, UIKit, React, NodeJS, Bootstrap, TailWind, jQuery, Pandas, Numpy, Scikit-learn
- **Technology and Tools:** MySQL, Postgres SQL, JUnit, Selenium, CoreML, Unity, CoreData

SELECTED PROJECTS

UNC Illness Lab – Full Stack, Flutter, UI/UX   Sept 2024 - Jan 2025

- Contributed to the initial development of a Flutter web application (Escape Room) for healthcare education, focusing on core game mechanics, including sequential loop and escape room logic
- Collaborated on refining the healthcare education Escape Room application, now utilized by 1000+ UNC students.

Facial Recognition Application – Artificial Intelligence, Computer Vision, Machine Learning   May 2024

- Developed a facial verification system using a Siamese neural network architecture to accurately compare facial images.
- Implemented feature extraction and similarity measurement using L1Distance to determine if two faces belong to the same person.

Image to LaTeX – Machine Learning, Computer Vision, Neural Networks   Aug 2024 - Dec 2024

- Developed an equation-to-LaTeX conversion system using OCR and NLP, achieving high transcription accuracy
- Implemented Vision Transformers (ViT) for visual feature extraction, enhancing performance on low-quality and handwritten equations.
- Utilized decoder LLMs for LaTeX generation, significantly improving conversion precision.

PumpPal - Macro Tracking iOS app – SwiftUI, Swift, CoreData, CoreML, Mapkit   Sept 2023 - Dec 2023

- Developed and implemented an iOS macro-tracking application using Swift and SwiftUI, incorporating a Nutritionix API integration for precise macronutrient data retrieval.
- Engineered a commended application poised for Apple App Store launch, recognized by peers for its robust functionality.

EDUCATION

M.S. in Computer Science | University of North Carolina At Chapel Hill, NC   Aug 2024 – May 2026

- GPA: 4.0/4.0
- Relevant Coursework: Advanced Machine Learning, Computer Vision in 3D world, Digital Logic

B.S. in Computer Science | Arizona State University, AZ   Aug 2020 – May 2024

- GPA: 4.0/4.0
- Relevant Coursework: Artifical Intelligence, Data Structures and Algorithms, iOS app development, Database Management

AWARDS AND HONORS

Moeur Award – Arizona State University

- Awarded by ASU for highest academic standing for eight consecutive fall and spring semesters

8 x Dean's List – Arizona State University

- Completed 121 letter-graded units during 8 semesters with a 4.0 GPA

New American University Scholarship – Arizona State University

- Acknowledged for academic excellence with a financial award of $15,500/year in recognition of achievements.

SUN Award – Arizona State University

- Awarded five times by the University for exceptional professional performance