

bhabishya.k.shrestha@gmail.com
(512) 577-3681

BHABISHYA SHRESTHA

GitHub: [bhabishya-shrestha](#)
LinkedIn: [Bhabishya Shrestha](#)

EDUCATION AND CERTIFICATIONS

Richardson, Texas **University of Texas at Dallas** **August 2020 – May 2025**

- M.S. in Computer Engineering – Applied Machine Learning (Fast Track Admit) GPA: 3.81 May 2024
- B.S in Computer Engineering – Dean’s List, Spring 2021 – Spring 2022

Certifications

- Agile Foundations Class (AFC-AICI) Certified by Agile International Coaching Institute July 2023
- Midas Safety Platform Certified by Cadence November 2023
- Design for Test Fundamentals v4.0 Certified by Cadence December 2023
- Cloud Practitioner Certified by Amazon Web Services

SKILLS

Languages Java, JavaScript/HTML/CSS, Typescript, Python, C/C++, GraphQL
Frameworks and Libraries React.js, React Native, Node.js, Redux
Tools Git, AWS (Amplify, DynamoDB, CloudFormation and more), Azure DevOps, CI/CD, JIRA

EMPLOYMENT

Software Engineer, Intern **Southern Glazer’s Wine & Spirits – Richardson, TX** **Summer 2023**

- Successfully earned the **AFC-AICI certification**, showcasing proficiency in Agile Methodology.
- Played an active role in 4 development cycles between inception and release and collaborated in 2 impactful demos, gaining valuable insights into the life cycle of front-end components using **Salesforce**.
- Effectively utilized sandbox environments for precise debugging, identifying, resolving 15+ issues via regression, API and validation testing in **Tosca** and **Jenkins** platforms.
- Conducted thorough research and consolidated 3 use cases for **Sentiment Analysis**, outlining the implementation of a system for elevated marketing through demographic clustering and 80% swifter resolution of system-wide challenges.

Co-Founder, Software Engineer **Hidden Gems** **Fall 2022 - Present**

- Collaborated with a team of 5 to develop a **Typescript** and **React Native** Mobile App featuring an intuitive interface utilizing Figma, AWS Services, StyleSheet, Redux, Web DevTools, and other external libraries.
- Led a team in a **scrum-based sprint** cycle to implement a search bar feature with Redux via **REST API**, enhancing user convenience and reducing data retrieval times by 80%.
- Expanded app capabilities for corporate clients by enabling catering menu queries and user order creation, utilizing **Redux** and **Amplify Datastore**. This enhancement led to a 30% increase in corporate user adoption.

PROJECTS

Motherboard Identification

UTDesign Expo 1st Place

- Designed and developed an automated motherboard identification program with a 7-person team by utilizing YOLO v8, Pylibdmtx, and **Tesseract OCR**, ensuring accuracy and efficiency.
- Implemented text with image preprocessing via **OpenCV** and Tesseract OCR and barcode recognition utilizing Pylibdmtx to process and decode 2D Data Matrices, improving accuracy to 100%.
- Led the integration of Object and Barcode Recognition integration with mount-camera deployment, ensuring project efficiency and timeliness.

Breast Research Cancer Chatbot

Sponsored by Dr. Lakshman Tamil

- Designed and developed a chat-bot web app utilizing **React.js** and **JavaScript** for the user interface, seamlessly integrating a custom knowledge base.
- Incorporated **FastAPI** to establish communication between local knowledge base and **ChatGPT model** via the **OpenAI** API.
- Capitalized **Boto3** to facilitate the upload of user audio inputs to **AWS Transcribe**, allowing voice-based chatbot interactions. Streamlined backend processes via **AWS Lambda functions**.

LEADERSHIP

Richardson, TX	Tau Beta Pi, Engineering Honor Society	Spring 2022 - Present
-----------------------	-----------------------------------------------	------------------------------

Vice President

- Selected as among the top eight of my year ad major department (ECS) for acceptance into the organization.
- Led 5 officers to organize and execute events, boosting engagement among 40+ members.
- Increased event participation, leading to a substantial rise in attendance and engagement.

Recording Secretary

- Managed recruitment and selection, ensuring consistent criteria application and diverse member invitations.
- Represented the chapter at the Tau Beta Pi District Conference, contributing to leadership discussions and officer training.

Richardson, TX	Institute of Electrical and Electronics Engineers at UTD	Spring 2022 – Spring 2023
-----------------------	-----------------------------------------------------------------	----------------------------------

Technical Director of the Forge

- Established an organizational structure for the Forge, fostering a culture of innovation and empowering students to develop and execute technical initiatives that align with the IEEE mission.
- Supervised a team of project managers, providing direction and guidance to ensure timely and high-quality program delivery, while monitoring progress and addressing issues as needed.
- Facilitated communication and collaboration among program managers, faculty advisors, sponsors, and technical experts, promoting seamless execution of undertaking and achieving goals.

Forge Computer Engineering Project Manager

- Led **“Facial Security System IOT Project”**: Designed a microcontroller IOT utilizing Breadboard, TinkerCAD. Developed a Facial Security System based on Magic Mirror library, Raspberry Pi, and Camera Module.
- Led **“Arduino Robotic Arm Project”**: Designed a microcontroller IOT utilizing Breadboard and VEX parts. Developed a robotic arm using C++, Arduino Mega 2650, HC-05 Bluetooth Module, and Android Joystick.

Project Team Member

- Collaborated on the front-end web development design for the IEEE division at the University of Texas Dallas using HTML, JavaScript, and Svelte to implement Parallax, Slideshows, and Bootstrap navigation bars.

ADDITIONAL INFORMATION

Languages	English, Conversational Nepali, Conversational Hindi
Work Eligibility	Eligible to work in the U.S. with no restrictions