Anuj Shah

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EDUCATION

University of Texas at Austin — May 2026

Bachelor of Science in Computer Science

- GPA: **3.9**
- Relevant Coursework: Data Structures, Operating Systems, Computer Organization and Architecture, Discrete Math, Probability and Statistics, Neuroevolution, Multivariable Calculus, Linear Algebra, Competitive Programming, High Performance Computing, Software Engineering

EXPERIENCE

Software Engineer Intern — May 2024 – Present

SGK Inc

- Developed a full-stack web app using **Flask** and **Python** for automated package artwork quality control
- Leveraged **OpenCV** models to extract and validate text and image attributes against client specifications. Streamlined QC for **400+ users**, reducing processing time by **65%**.
- Built an **end-to-end** ad ideation web app with an **AWS Bedrock** pipeline, automating ad creation based on brand inputs, allowing users to **outpaint images** and **dynamically overlay text** on a selection of generated ads.

Machine Learning Research Assistant — Dec 2023 – March 2024

University of Houston, HULA Lab

- Trained a deep learning model using **PyTorch** and **TensorFlow** to detect abnormalities from Chest X-Ray scans, helping **MD Anderson** radiologists increase patient diagnostic accuracy
- Applied **transfer learning** with **ResNet50** architecture, enhancing performance to **98% model accuracy**.
- Calculated and visualuzed results and data in **Python** with **scikit-learn** and **Matplotlib**.
- Processed radiologist eye-gaze data, creating gaussian heatmaps of eye tracking for models to train on.

Software Engineer Intern — May 2021 – August 2021

JPMorgan Chase

- Developed a web application accessing and displaying information from **NoSQL** database **Cassandra**, aiding in the centralization of **asset valuation**.
- Analyzed and displayed 50K+ transactions from Cassandra database using **Java**, **Spring Boot**, and **Node.js**
- Developed a UI using **React.js**, **JavaScript**, and **HTML** to visualize database findings.
- Conducted 25+ meetings using the **Agile** iterative approach, resulting in successful implementation of the project.

PROJECTS

Complayne | *Python, JavaScript, React native, MongoDB, Django, Git* — September 2024 – Present

- Developed a cross-platform **mobile app** with a map-based UI using **React Native Maps** and **Google Maps API**, enabling users to create, view, and upvote local complaints within a set proximity.
- Designed a scalable backend with **Python**, **Django**, and **MongoDB** to streamline complaint processing, optimize **database interactions**, and handle high traffic efficiently.
- Implemented an **AI-driven algorithm** to intelligently combine similar complaints based on location, category, and content, while predicting high-impact complaints likely to attract community support.

MailMe | *Python, Django, React.js, MongoDB, IMAP, OpenAI API* — August 2024 – Present

- Developed a web-based project management application that automatically updates project tasks by parsing emails CC'd to project-specific addresses
- Implemented **server-side email retrieval** and parsing using Python's IMAP libraries and **NLP** techniques to extract responsibilities and deadlines from unstructured email content.
- Built a dynamic user interface with real-time updates using **React.js** and **WebSockets**, enhancing team collaboration and project visibility.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, SQL, R
Web Development: HTML, CSS, JavaScript, React native, React.js, Node.js, Express, Flask, Django
Developer Tools: Git, Amazon Web Services, Docker, MongoDB, Jupyter Notebooks, Anaconda, VSCode, Linux
Concepts: AI, ML, RESTful APIs, Cloud Computing, Backend Development, Agile, Computer Vision, Microservices