# SHREYAS PRABHAKAR

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#### Education

### **Texas Tech University**

Master of Science in Computer Science — Minor Artificial Intelligence

• Texas Tech Competitive Scholar — GPA: 3.75

### Work Experience

### Lawrence Berkeley National Laboratory

Graduate Student Research Assistant

- Engineered a secure account-management module, including password reset, email verification and account-deletion workflows, while refactoring the data schema to align with the new micro-services architecture, boosting account maintenance efficiency by 80%
- Built a reusable visualization package that plots 150+ supercomputer metrics (CPU/GPU utilization, memory, vmstat, job-level comparisons, etc.) in an interactive widget, eliminating the project's dependency on Grafana and giving researchers real-time performance insight in a single view

# Texas Tech University Health Sciences Center

Software Development Intern

- Collaborated with director to build CRM for CPM app, enabling 500+ employees to track hours, manage leave workflows, and access delegated dashboards using SignalR, EF Core, jQuery, and SQL
- Built real-time WebSocket notifications and comment-enabled leave reviews with minimal lead support, delivering **all features** on time during internship

## Terrologic

Software Engineer II

- Developed a telecommunication web app for Fujitsu using Angular, Leaflet.js, Highcharts, and Cytoscape, enabling real-time management of 50+ global data centers through an interactive topology visualization on a world map.
- Designed an **AES encryption mechanism** for secure communication across **5**+ **applications** in diverse languages, achieving 100% knowledge transfer and earning Star Performer of the Year for a successful client demonstration.

#### Infosys

System Engineer

- Architected a Job Rotation Portal PoC for Infosys using PEAN stack in 14 days, securing client approval and stakeholder appreciation, enabling project acquisition through effective team collaboration and consensus-building.
- Ranked No.3 out of 350 trainees in Microsoft Stream Stack training at Infosys Mysore, contributing to Microsoft Dynamics 365 feature development and achieving 100% client satisfaction by resolving weekly customer-reported bugs and incidents.

# Projects

**BilboMD** | Website | Source Code

• Developed BilboMD, a full-stack web application using Python, RESTful APIs, and ReactJS, integrating CHARMM, FoXS, and MultiFoXS for protein 3D structure analysis, supporting 100+ users with diverse MD-based job modes, interactive Jiffy tools, and email notifications, processing 500+ jobs at NERSC and BL12.3.1.

#### **BraTS PolypSegmentation** | Source Code

• Developed a modified DUCKNet architecture using Python and TensorFlow for brain tumor segmentation on the BraTS2020 dataset, achieving a 88.72% Dice Coefficient on validation data, with optimized preprocessing and training on a 40GB A100 GPU, enhancing MRI-based diagnosis.

# **Technical Skills**

Languages: Python, C#, SQL, HTML5, CSS, JavaScript, TypeScript, Rust, R, JQuery Developer Tools: AWS, Postman, PowerBI, Git, Azure, Docker, Jira, Trello, Notion Libraries/Frameworks: Entity Framework Core, Angular, ReactJS, PostgreSQL, Flask, Django, NodeJS

Jan 2020 - Oct 2021

Bengaluru, India

May 2024 – Aug 2025

Berkeley, California

Oct 2021 - Aug 2023

April 2024 – Sep 2024

Bengaluru, India

Lubbock, Texas

## ReactJS | Node JS | MongoDB

Python | Numpy | Tensor Flow

Graduation: May 2025 Lubbock, Texas