Aayush Srivastava

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FDUCATION

Richardson, TX

University of Texas at Dallas

Backelor of Science in Computer Science

Relevant Coursework: Fundamentals of Computer Science, Calculus I, Computer Science I, Discrete

Mathematics for Computing

University of Texas at Dallas

EXPERIENCE

ACM Projects - UTD Chatbot — React Native, NGROK, MongoDB, OpenAI Aug. 2024 - Nov. 2024
University of Texas at Dallas

- Led front-end development for three core features—Community hub, Chatbot interface, and "Post an Issue" flow—using React Native on a MERN stack. Drove the project from wireframes to a working MVP in a 10-week

- cycle, collaborating with a five-member team and conducting weekly team meetings.

 Community page: built a responsive feed that pulls discussion threads, supports tag-based search, and lets students may be a poor colutions.
- up-vote / comment on peer solutions.

 Post an Issue page: designed a form that lets users attach screenshots and automatically opens a new thread in the Community collection.
- Created a conversational UI that streams responses from an OpenAI endpoint, hooked into Clerk so only authenticated UTD users can access real-time help.

 $J_{an},\ 2025-Present$

ACM Research – AstroVision – Python, PyTorch, NumPy, Matplotlib

Richardson, TX

- Fine-tuned a MobileNetV2 transfer-learning model to recognise four celestial object classes, pushing validation accuracy from 84 % to 94 % while freezing all base weights.
- Expanded a modest dataset 10 p.p. and curbing over-fitting on the small space-image corpus.
- Achieved a lightweight 10 MB model that nearly matches Heira Transformer accuracy while delivering markedly faster inference.
- Automated evaluation dashboards—confusion-matrix heat-maps, learning-curve plots.

PROJECTS

AI Customer Support Bot | Next.js, Node.js, Material UI, Gemini API

- Built an end-to-end customer service app using Next.js 14 App Router, connected to Google Generative AI
 "Gemini 1.5 Flash" so Headstarter users get on-demand answers about onboarding, interview prep and billing.
 Built an API endpoint that wraps Gemini chat in a ReadableStream, streams partial tokens, and enforces a
- 500-token сар. — With Beact books and MIII. optimistic rendering live Text Decoder updates, autosoroll, and colour-coded bub
- With React hooks and MUI: optimistic rendering, live TextDecoder updates, autoscroll, and colour-coded bubbles so users see the bot "typing".

Inventory Management | Next.js, Node.js, Material UI, Firebase

- Engineered a full-stack inventory manager that lets users instantly add, edit, delete, and text-search pantry items, refreshing the list in real time.
- Designed a minimalist, mobile-first UI with Next.js and Material UI, surfacing every core action.
- Deepened React expertise by building reusable CRUD hooks, a debounced search bar component, and custom MUI theming.

LECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML, CSS Frameworks: Next.js, Node.js, React Native Libraries: Tkinter, NumPy, Pandas, Matplotlib, React, Streamlit, Python file-handling

Tools: Firebase, Clerk Auth, Material UI, NGROK, Figma, Outlook