KHUSH LALCHANDANI

📞 (512) 363-8422   ✉️ khush.lal200@gmail.com   in linkedin.com/in/khush-lalchandani   ⊙ github.com/khush-l

Education

Stanford University   **June 2029**
B.S. in Computer Science   *Stanford, CA*

Honors: 1st Place at FBLA Nationals in Supply Chain Management, USACO Gold Division (Top 15%), AIME Qualifier, National Merit Scholar, Eagle Scout, AP Scholar with Distinction, Global Seal of Biliteracy (Spanish)

Experience

Cirrus Logic   **Jun 2025 − Aug 2025**
Software Engineer Intern   *Austin, TX*
- Designed and implemented a **Go**-based telemetry GUI for the Atom IC Handler displaying live sensor data, engineering controls, and error logs, with custom gamepad and laser alignment features that cut manual setup time by over **80%**.
- Built modular recipe creation, user authentication, and error-handling features to support production testing.
- Automated version updates and deployments via REST API, SSH, and PowerShell, increasing reliability and throughput.

Jaisr Consulting   **Jan 2023 − Present**
Co-Founder & CEO   *Austin, TX*
- Co-founded a consulting firm delivering **web development**, **AI automation**, and **technical outsourcing solutions** to small businesses and startups, generating over **$20K in revenue**.
- Secured **vendor registration with the State of Texas**, enabling bids for government technology contracts.
- Designed scalable software workflows integrating cloud automation and CI/CD pipelines to streamline client operations.

Mobility Systems Laboratory(UT Austin   **Jun 2024 − Aug 2024**
Research Assistant — Autonomous Vehicles   *Austin, TX*
- Built an **Advanced Driver Assistance System** lane-segmentation pipeline using classical **computer vision** on the vehicle's four directional cameras in **MATLAB/Simulink** for a Quansar QCar reducing lateral tracking error by **20%**.
- **First author** on research paper and selected to present work at the **National Science Foundation Headquarters**.

ZSuite Technologies   **Jun 2023 − Aug 2023**
Software Engineer Intern   *Austin, TX*
- Built a **LLM** question-answering tool with **LangChain** and **Azure OpenAI** that searches a **Weaviate** index of company policy documents and returns clear answers to client questions using **retrieval-augmented generation**.

Projects

Image Editor | *Next.js 14, TypeScript, Cloudinary, Clerk, MongoDB, Stripe*   **2024–2025**
- Built and deployed a production-ready web image editor in **Next.js 14 (TypeScript)** with **Cloudinary** transformations for fast object recolor, background/object removal, social-crop presets, image enhancing, and one-click watermarking.

Route Safety Assistant | *Python, Flask, scikit-learn, Random Forest*   **2025**
- Engineered a scalable pipeline computing a **Route Safety Score** from 20 years of crash data, clustering hotspots with **DBSCAN** and ranking the three safest routes via a **Random Forest** model with Text to Speech guidance.

Leadership & Activities

Science Olympiad   **2021 − 2025**
Captain   *Austin, TX*
- Led 50-member team, managing competitions, training, and logistics, placed 1st at State and 15th at Nationals.
- Managed the club's 501(c)(3) nonprofit arm, overseeing fundraising, donations, and tax filings.

Varsity Football   **2021 − 2024**
Four-year Varsity Letter & Leadership Team   *Austin, TX*
- Collaborated with coaching staff to mentor new players and coordinate team leadership initiatives.

Boy Scouts of America   **2016 − 2025**
Eagle Scout, Assistant Senior Patrol Leader   *Austin, TX*
- Directed community service projects and mentored younger scouts through leadership development programs.

Skills

Languages: Spanish, Hindi, Python, C/C++, Go, Java, TypeScript/JavaScript, MATLAB
Systems & Tools: Linux, Git, Docker, REST APIs, PowerShell, SSH, Azure, AWS, Bitbucket
Frameworks & Concepts: Flask, React, Next.js, scikit-learn, PyTorch, TensorFlow, Embedded Systems, CI/CD