

# SALONI SHAH

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## EDUCATION

**University of Minnesota, College of Science and Engineering**  
*Bachelor of Computer Engineering*

Minneapolis, MN  
Expected May 2028

## TECHNICAL SKILLS

**Languages:** C/C++, Python, Java, JavaScript/TypeScript, HTML/CSS

**Frameworks & Tools:** React, Next.js, Node.js, Supabase, Unity, Git, Linux, REST APIs

**Systems & Protocols:** Data Structures & Algorithms, Networking Protocols, Embedded Systems, SQL

**Specialized:** YANG, ConfD, Babeltrace, OAuth2, MCP, AR Development

**AI & ML:** OpenAI API, Google Gemini, Whisper, LLM Applications, Prompt Engineering, Multimodal Systems

## EXPERIENCE

**Software Engineering Intern**

June 2025 - August 2025

*Arcus - Networking Systems*

San Jose, CA

- Reduced trace decoding runtime by **9x** by replacing a Python decoder with a C Babeltrace 2 plugin for inline IPv4/IPv6/MAC address decoding, accelerating large-scale networking debugging workflows.
- Enhanced IS-IS, RIB, and FIB modules by adding **last-update-time** and **failure reason** attributes, standardizing YANG models and improving root-cause analysis of routing delays.
- Designed, tested, and shipped enhancements across ArcOS, **reducing CPU overhead** and strengthening reliability in large-scale enterprise deployments.

**Teaching Assistant**

September 2025 - Present

*University of Minnesota*

Minneapolis, MN

- Led weekly lab sessions for **14 students** across core electrical and computer engineering courses (**EE 1301 & EE 2301**), supporting hands-on experimentation and problem-solving.
- Guided students through circuit concepts, debugging techniques, and lab instrumentation while reinforcing lecture material.
- Held regular office hours providing one-on-one support for homework, lab reports, and exam preparation.

## PROJECTS

**TimeSlot – AI Task Scheduler**

*Full-Stack Application — Active Startup*

- Built an AI scheduling app that converts natural language task input into optimized **Google Calendar** events, using LLM parsing to extract tasks, estimate durations, and auto-schedule into free time slots.
- Developed full-stack application with **Next.js, Supabase, and OpenAI API**, integrating Whisper for voice input and deploying as a PWA on Vercel. Currently in active beta with real users.

**Real-Time Relationship Recall Assistant**

*Google DeepMind x YC Hackathon*

- Built a prototype for **Meta smart glasses** integrating **Google Gemini multimodal models** for real-time vision and audio context processing.

- Implemented a multimodal inference pipeline combining computer vision, speech analysis, and LLM reasoning to identify individuals, extract conversational updates, and generate post-interaction artifacts using NanoBanana.

### Google Classroom MCP Server

*API Integration & Protocol Development*

- Developed **Model Context Protocol (MCP) server** enabling AI assistants to integrate with Google Classroom API for educational workflow automation.
- Configured **OAuth2 authentication** with Google Cloud Platform, managing secure token storage and refresh mechanisms.
- Architected comprehensive **TypeScript API wrapper** supporting 8+ operations including course management, assignment creation, and submission monitoring.

### AI-Powered Job Application Assistant

*Automation & Web Scraping*

- Engineered automation tool using **OpenAI API and Selenium** to generate personalized cold emails for startup applications from VC portfolio websites.
- Optimized cross-platform compatible interface with automated ChromeDriver integration.

### Chasing Stars AR Productivity App

*Mobile Development — \$1,000 Development Grant*

- Pioneered **AR mobile app** for task management with interactive 3D elements using Unity and C# in 48-hour hackathon.
- Spearheaded team of 4 developers, delivered MVP and secured funding through pitch presentation to industry judges.

## LEADERSHIP & ACTIVITIES

### Student Partner

April 2025 - Present

*Moonpreneur*

Minneapolis, MN

- Architected comprehensive programming curriculum teaching software development fundamentals to **K-8 students**.
- Created hands-on project modules covering debugging techniques and computational problem-solving.

### Mechanical/Machining Director

September 2020 - April 2024

*FRC Robotics Team 1072*

San Jose, CA

- Orchestrated team of **20 members** in designing and fabricating competition-ready robot parts using **Fusion 360 and CNC tools**.
- Collaborated on control algorithms and hardware-software integration for autonomous operations.

**Activities:** IEEE, Society of Women Engineers (SWE), AI Club, Startup Club, Competitive Programming Club (Event Coordinator)