# AGAMJOT SINGH

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## Education

**San Jose State University** — May 2027
*Bachelor of Science in Computer Science* — *GPA: 3.9/4.0*
**Clubs:** Association for Computing Machinery (ACM), Software and Computer Engineering (SCE)
**Relevant Coursework:** Data Structures & Algorithms, Computer Systems, DBMS, Applied Artificial Intelligence, Linear Algebra, Programming Paradigms, Object Oriented Programming

## Experience

**Hugging Face** — Jul 2025 – Sep 2025
*Open-Source Contributor* — *Milpitas, CA*
- Engineered a GPU-accelerated image processor for ImageGPT in **PyTorch**, achieving **20.1×** average CUDA speedup and **1.5×** CPU speedup, reducing training and inference times.
- Optimized color quantization with PyTorch tensor ops, significantly accelerating image tokenization workflows.
- Merged into Hugging Face's OOP framework, contributing to a library with **100M+** monthly downloads

**Microsoft Playwright** — Feb 2025 – June 2025
*Open-Source Contributor* — *San Jose, CA*
- Merged a new HTML report feature into Microsoft Playwright, enhancing test reporting for **10,000+** companies
- Implemented configurable snippet controls in Playwright's reports, enabling developers to hide sensitive code and share clean reports with non-technical stakeholders.
- Refactored components with **React**, improving rendering performance and readability across enterprise test suites

**SafeInbox** — Feb 2024 – May 2024
*Software Engineer* — *San Jose, CA*
- Developed phishing-detection models with **96%** email and **95%** URL accuracy Logistic Regression and XGBoost.
- Developed a **Flask API** integrating email, URL, and domain abuse detectors for real-time phishing scans.
- Integrated the API into a Gmail Chrome extension, delivering instant security checks for end users.

**ACM @ SJSU** — Oct 2023 – Apr 2024
*Software Engineer* — *San Jose, CA*
- Contributed to the first creation of the SJSU ACM website, employing **Next.js**
- Earned role as one of the Devteam's 16 essential officers out of **250+ applicants**.
- Orchestrating the project as the appointed Project Manager, overseeing a team of individuals, and assigning roles and responsibilities to ensure execution of the ACM SJSU's website development.

## Projects

**Foresight** *SfHacks* | DevPost | *Gemini, MongoDB, NextJS, OpenCV, YoloV11*
- Platform that detects missing children in real-time using YOLOv11, Google Gemini, using live CCTV streams.
- Enables real-time scanning of live CCTV footage against a national Amber Alert database to surface potential matches.

**ScammerJammer** *CalHacks 11.0* | DevPost | *Hume API, NextJS, Tailwind, Vercel*
- Created an anti-scam platform to waste scammers' time through frustrating automated calls.
- Integrated **Hume.ai's** API to analyze scammers' anger levels in real-time, providing quantitative data on the platform's effectiveness in frustrating malicious callers.

## Leadership / Extracurricular

**SJHacks Lead** — Nov 2023 – May 2025
*San Jose State University* — *San Jose, CA*
- Successfully hosted **SJSU's university-wide hackathon**, attracting **150+** participants.
- Raised over **$3,000 in sponsorships** through outreach and partnerships with tech companies and local organizations.
- Created the official hackathon website using **Next.js** and **TailwindCSS**, which served as the main hub for all attendees.

## Technical Skills

**Languages**: Java, Python, JavaScript, Php, SQL, TypeScript, HTML/CSS
**Frameworks**: React, Next.js, Flask, OpenCV, Tailwind
**Tools**: VS Code, Git, IntelliJ, Eclipse, Github
**Concepts**: Frontend, Backend, Fullstack, Software Engineering, Machine Learning, Computer Vision, Agile Methodologies