

# Gabe Amare

[gabe.amaret@gmail.com](mailto:gabe.amaret@gmail.com) | [linkedin.com/in/ksgat](https://linkedin.com/in/ksgat) | [github.com/ksgat](https://github.com/ksgat) | Chantilly, VA

## EDUCATION

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### Chantilly High School

*High School Diploma (Expected)*

Chantilly, VA

June 2028

- Relevant Coursework: AP Computer Science A, Data Structures & Algorithms
- Activities: FIRST Robotics Competition, CyberPatriot, CTF Competitions, Marching Band

## PROJECTS

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### Modlr | [github.com/jadenryu/final](https://github.com/jadenryu/final) | Three.js, Next.js, xAI API

December 2025

- Developed Modlr, an agentic CAD software leveraging the xAI Grok API to enable 3d model generation
- Implemented core functionalities including a CAD engine, scripting language for the CAD engine, and an AI agent that can generate models
- Built for the 2025 xAI Hackathon

### Parsr | *Next.js, FastAPI, LLM Integration, RAG*

Sept 2025

- Captured 2<sup>nd</sup> place at Hack the Nest 2025 with a search engine designed to strip SEO noise and improve result relevance
- Engineered a full-stack solution integrating LLM-based ranking and Retrieval-Augmented Generation (RAG) pipeline to significantly reduce scrape latency

### Ugoku | [github.com/ksgat/linksim](https://github.com/ksgat/linksim) | Rust

May 2025 – Present

- Developed a Rust-based kinematic linkage simulator for CAD-grade mechanical prototyping
- Implemented real-time constraint visualization using a lightweight HTML canvas interface

## COMPETITIONS & AWARDS

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- TJCTF 2025 – 9<sup>th</sup> Place (International)
- Commonwealth Cyber Cup 2025 – 3<sup>rd</sup> Place (State)
- Hack the Nest 2025 – 2<sup>nd</sup> Place

## LEADERSHIP

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### Organizer @ Tillyhacks | Co-Foudner

July 2025 – Present

- Co-founder and organizer of Tillyhacks, a Highschool Hackathon set to happen in Q1 2026
- Building community of 65+ students across multiple schools for upcoming hackathon event
- Secured local business sponsorship and organized fundraiser to support event for event costs
- Coordinating with school administration on logistics, venue, and participant operations

## TECHNICAL SKILLS

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**Languages:** Python, Rust, JavaScript/TypeScript, Java

**Frameworks/Tools:** Next.js, FastAPI, Git, Linux, VS Code

**Other:** Experience building fighting and non-fighting bots; passionate about tinkering across stacks

## ABOUT

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- 15-year-old programmer tinkering across various stacks. Enthusiastic about building, competing in CTFs/hackathons. Building both fighting, and non-fighting robots, well acclimated to using coding agents as well