

# GAVIN GARZIA

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## EDUCATION

**Colorado School of Mines**, Golden, CO Expected Graduation: **Dec 2025**  
**Major:** Bachelor's of Science in Computer Science + Business GPA: **4.0**  
**Minor:** Computational and Applied Mathematics  
**Awards:** RSM C-MAPP Scholar, Tau Beta Pi, Deans List

## SKILLS

**Languages** Python, C++, Java, Bash, C, Matlab, HTML, CSS, Haskell, PostgreSQL, SQLite, Powershell, MySQL, RISC-V Assembly, Batch  
**Frameworks** FastAPI, Java Swing, PyQt  
**Other** Git, L<sup>A</sup>T<sub>E</sub>X, REST APIs, Redis, Linux, Agile, SVN

## EXPERIENCE

**Qualcomm** Aug 2024 - Present  
Software Engineering Intern (CSCI370) Boulder, CO

- Implemented REST API with caching layer to handle requests from approximately 2,000 LTE base stations
- Engineered parallel solution to collect LTE base station configurations, decreasing runtime from 6 hours to under 1 minute
- Packaged script to Qualcomm's internal RPM repository

**White River Technologies** May 2024 - Aug 2024  
Engineering Intern Lebanon, NH

- Developed script to configure Windows tablets for deployment with EM sensor system
- Designed and implemented GUI to plan drone flight paths with integrated leaflet.js map
- Developed GUI to modify configuration file and adjust hardware settings for EM sensor system
- Enhanced quality control GUI by adding ability to manipulate and convert between .ply and .shp file formats

## PROJECTS

**Portfolio Website** Sep 2024  
HTML & CSS gavingarzia.com

- Designed and implemented website to showcase projects and experience
- Hosted website on Github Pages and ensured UI/UX was mobile compatible

**Chess** Dec 2022  
C++

- Designed a Command Line Interface for interaction and gameplay
- Implemented features such as move validation, check detection, and game state tracking

## ACTIVITIES

**Association for Computing Machinery**  
High School Programming Competition Chair

- Planning programming competition by organizing problem writing, reserving rooms, and ordering food
- Ensuring smooth operation by imaging computers for teams

**Evolve Entrepreneurship**  
Member