

# Tom Perel

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## EDUCATION

### Northwood High School

Irvine, CA

*Relevant Coursework: Data Structures & Algorithms, AP Computer Science A, AP Statistics Aug. 2021 – June 2025*

### Irvine Valley College

Irvine, CA

*Computer Science*

*Expected graduation 2029*

- Technical Officer of the IVC Artificial Intelligence Club
- Member of the IVC Honors Program
- Participant in the RAMP research program
  - \* Working in a team of 4 honors students on research into NLP Personalization
  - \* Planning to present at the HTCC conference (UC Riverside) & Bay Honors Symposium (Stanford)
- Member of the IVC Computer Science and MedAI Clubs

## EXPERIENCE

### AI Research Intern

June 2025 – Present

*Turing*

- Working with AI agents to optimize LLM training data and reasoning traces for advanced college coursework through research for high-profile clients such as OpenAI, Google, and Anthropic.

### Website Developer

Sep. 2025 – Present

*HackCC*

- Created documentation for new onboards about setting up the environment using VirtualBox & Ubuntu. Documentation covers Docker setup, VSCode Setup, Connection to Git, Potential troubleshooting, and helpful resources.
- Developed the front-end for the attendee dashboard using React and Typescript, which displayed crucial information for over 100 participants of the HackCC hackathon.

### Financial Analyst

July 2023

*CytoReason*

- Worked with VP finance on financial analysis of P&L data
- Calculated ratios such as ROE, ROA, and Gross profit margin by reading 10-K filings.

## PROJECTS

### Evaluating Adversarial Vulnerabilities in Modern Large Language Models | Pandas, Matplotlib, LaTeX

- Won "Outstanding Oral Presentation" out of 160 participants for solo research on 'Evaluating Adversarial Vulnerabilities in Modern Large Language Models' at the IVC/Saddleback Research Symposium
- Wrote and published a full research paper on arXiv
  - \* Cleaned and calculated statistics using Pandas
  - \* Visualized important data using Matplotlib

### Clash Royale Computer Vision | OpenCV, MSS, Android Debug Bridge

- Connects the BlueStacks 5 emulator to Visual Studio Code through ADB (Android Debug Bridge)
- Identifies the current game state and can act accordingly
  - \* Developed a computer vision system using OpenCV to interpret game states, utilizing template matching for UI navigation and pixel analysis for dynamic resource (elixir) tracking
  - \* Using MSS for high-speed screen capture to gather visual data from the emulator

## CERTIFICATIONS

**Freecodecamp:** Responsive Web Design, Scientific Computing with Python

**CyberForward Academy:** Received the "Foundation Certified" certification following a semester-long class on AI & Cybersecurity